STATE OF SOUTH DAKOTA COUNTY OF MINNEHAHA

CHARLES RUSSELL RHINES,

Plaintiff,

VS.

SOUTH DAKOTA DEPARTMENT,
OF CORRECTIONS and MIKE
LEIDHOLT, Secretary, South Dakota
Department of Corrections, DARIN
YOUNG in his capacity as Warden of
the South Dakota State Penitentiary

Defendants.

IN CIRCUIT COURT SECOND JUDICIAL CIRCUIT

CIV. 19-

RESPONSE TO MOTION FOR A PRELIMINARY INJUNCTION, TEMPORARY RESTRAINING ORDER AND STAY OF EXECUTION

Defendants South Dakota Department of Corrections, Mike Leidholt and Darin Young through their counsel, Paul S. Swedlund, Assistant Attorney General, hereby responds to plaintiff Charles Russell Rhines' 11th hour motion for a stay of execution. Because Rhines cannot provide an adequate explanation for why he has waited until the last minute to bring a claim he could have brought years ago or a significant possibility of succeeding on it, and because of the state's and victims' strong interest in having Rhines serve his sentence, Rhines' motion should be denied.

SUMMARY OF ARGUMENT

Rhines could have brought this challenge 8 years ago. Instead, he waited until the end of the 11th day before the week scheduled for his execution to raise this issue. The issue is barred by *res judicata* because Rhines could have raised this issue in the method of execution challenge he litigated back in 2011 (or brought a stand-alone claim at any time since). The equitable remedy

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of a stay of execution generally is not available to those who delay bringing claims that could have been brought sooner.

Also, Rhines cannot succeed on the merits. Rhines' argument rests on the classification of pentobarbital as a short-acting barbiturate in a low-dosage, clinical setting. Here the drug is not being administered in a low dose in a clinical setting. Comparing the properties of low-dosage sodium thiopental or pentobarbital in a clinical setting with high-dosage pentobarbital in an execution setting is comparing apples to oranges. When used in a high-dosage, execution setting, the properties of pentobarbital are identical to the ultrashort-acting barbiturate sodium thiopental. Thus, no stay is warranted because Rhines cannot demonstrate a likelihood of success on the merits.

ARGUMENT

A. Rhines' Claim Is Barred By Res Judicata

- 1. Eight years ago Rhines was served notice of the adoption of a revised execution protocol. The protocol designated either sodium thiopental or pentobarbital as the barbiturate to be used in the 2-drug protocol that Rhines has elected. ERM A.12(B).C.1, Exhibit 1. The notice was served on Rhines in the context of a then-pending challenge to his method of execution before Judge Trimble in the 7th Circuit Court.
- 2. Rhines filed his challenge on February 21, 2008. FIRST AMENDED PETITION, Exhibit 2. Then, as now, Rhines requested declaratory and injunctive relief. Then, Rhines' complaints were:

- a. That 23A-27A-32 "as codified on the date of Charles R. Rhines' convictions" gave "no guidance as to the type of substances used or the quality of substances used for the punishment of death." FIRST AMENDED PETITION at Page 11, ¶¶37, 39.a, Exhibit 2.
- b. About "the two chemical[s] specified in SDCL 23A-27A-32 in effect at the time [of] Charles R. Rhines' conviction." FIRST AMENDED
 PETITION at Page 12, ¶6, Exhibit 2.
- c. That "[a]n execution pursuant to SDCL 23A-27A-32 as codified on the date of Charles R. Rhines' conviction violates the constitutions of the State of South Dakota and the United States prohibition against cruel and unusual punishment and is therefore unconstitutional." FIRST AMENDED PETITION at Page 13, ¶7, Exhibit 2.
- d. That "a[n] execution carried out by means of the two-drug cocktail provided in SDCL 23A-27A-32 in effect at the time of Charles R. Rhines' conviction constitutes cruel and unusual punishment in violation of the constitution of the State of South Dakota and the United States as well as depriving Rhines of his right to *due process* of law." FIRST AMENDED PETITION at Page 13, ¶3, Exhibit 2 (emphasis added).
- 3. Though he had been served with a copy of ERM A.12(B) on October 24, 2011, which contained explicit notice of the state's intention to use pentobarbital in the 2-drug protocol that Rhines has elected, and though Rhines' then-pending complaint for declaratory and injunctive relief

- contained general arguments that ERM A.12(B).C.1 denied him process that he felt was due to him under SDCL 23A-27A-32 and in opposition to the "two chemical[s]" that would be used, Rhines never raised a claim that pentobarbital is not an ultrashort-acting barbiturate within the meaning of SDCL 23A-27A-32 as codified on the date of his convictions.
- 4. During the litigation of Rhines' method of execution claims, the state had its expert opine on whether a 2-drug protocol of pentobarbital and a paralytic agent would provide a painless and humane death for an inmate. DERSHWITZ TESTIMONY at 21/22, excerpt attached as Exhibit 3. In addition to the ERM A.12(B).C.1. itself, this questioning put Rhines on further notice of the state's intent to use pentobarbital in carrying out the 2-drug protocol that he has chosen.
- Judge Trimble ruled against Rhines. TRIMBLE DECISION, Exhibit 4.
 The South Dakota Supreme Court affirmed. AFFIRMANCE ORDER,
 Exhibit 5.
- 6. During Rhines' subsequent federal proceedings, the state expected Rhines to amend his complaint to further challenge the state's method of execution in federal court. The state moved peremptorily to dismiss the claim (along with all of Rhines' other pending claims) anticipating that Rhines would continue his method of execution challenge. Remarkably, Rhines did not do so. Instead Rhines inexplicably threw in the towel on further challenging the method of his execution, brusquely stating that "the issue of the manner of execution, which was included in the latest

litigation in the state court, and which was discussed at such length in respondent's brief, is not before this court and this court cannot issue any sort of judgment concerning that issue." RHINES RESPONSE TO FEDERAL MOTION FOR SUMMARY JUDGMENT, CIV#00-5020 [DOCKET 232] at 6, excerpt attached as Exhibit 6.

7. "The doctrine of res judicata disallows reconsidering an issue that was actually litigated or which could have been raised and decided in a prior action. Farmer v. South Dakota Dept. of Rev., 2010 SD 35, ¶7, 781 N.W.2d 655, 659. Because Rhines certainly could have brought a specific challenge to the use of pentobarbital to carry out the 2-drug protocol as part of his then-pending complaint for declaratory and injunctive relief 8 years ago, his current claims, and dependent claim for equitable injunction, are firmly barred by principles of res judicata.

B. Rhines Cannot Meet The Standards For A Stay Of Execution

8. Recently, in *Bucklew v. Precythe*, 139 S.Ct. 1112, 1134 (2019), the
United States Supreme Court condemned the practice of reflexively
entering stays of execution. Stays of execution "should be the extreme
exception, not the norm." *Bucklew*, 139 S.Ct. at 1134. *Bucklew*reaffirmed the longstanding principle that the mere fact that an inmate
has filed some claim for relief – even a potentially meritorious one – "does
not warrant the entry of a stay as a matter of right." *Nelson v. Campbell*,
541 U.S. 637, 649 (2004).

9. "[A] stay of execution is an equitable remedy. It is not available as a matter of right, and equity must be sensitive to the state's strong interest in enforcing its criminal judgments." Hill v. McDonough, 547 U.S. 573, 584 (2006). Before a court grants a stay, it must consider "the relative harms to the parties," "the likelihood of success on the merits," and "the extent to which the inmate has delayed in bringing the claim." Nelson, 541 U.S. at 649-50. A "preliminary injunction [for a stay of execution is] not granted unless the movant, by a clear showing, carries the burden of persuasion." Hill, 547 U.S. at 584. Rhines has not carried his burden with clear evidence that the relative harms weigh in his favor, that he is likely to succeed on the merits and that he has not been purposefully and strategically dilatory in bringing his claim.

i. Relative Harms

10. A court considers the relative harms to the parties by balancing the competing interests of Rhines and South Dakota; specifically, Rhines' interest in being executed with sodium thiopental versus pentobarbital. Ledford v. Georgia Dept. of Corr., 856 F.3d 1312, 1315 (11th Cir. 2017).
"A defendant's interest in being free from cruel and unusual punishment is primary; however, a state's interest in effectuating its judgment remains significant." McNair v Allen, 515 F.3d 1168, 1172 (11th Cir. 2008). Victims of crime also "have an important interest in the timely enforcement of a sentence." Hill, 547 U.S. at 584.

11. As detailed below, courts have uniformly found that sodium thiopental and pentobarbital perform exactly the same and that substituting pentobarbital for sodium thiopental does not materially alter an execution protocol. Given that there is no difference between the two drugs when administered in an execution setting, Rhines' interest in being executed with sodium thiopental instead of pentobarbital is far outweighed by the state's interest in effecting its judgment and the victims' interest in justice (after 27 years) for their murdered son.

Ledford, 856 F.3d at 1315.

ii. Likelihood Of Success On The Merits

- 12. "[L]ike other stay applicants, inmates seeking time to challenge the manner in which the state plans to execute them must satisfy all of the requirements for a stay including a showing of a significant possibility of success on the merits." Hill, 547 U.S. at 584. Rhines cannot demonstrate a significant probability of success on the merits because his claim is barred by res judicata and because pentobarbital meets the classification of an ultrashort-acting barbiturate in an execution setting.
- 13. Just as "[a] time-barred complaint cannot justify a stay of execution, regardless of whether its claims have merit," a claim barred by res judicata will not justify a stay of execution, even if it may have had merit had it been timely litigated. Gissendaner v. Georgia Dept. of Corr., 779

 F.3d 1275, 1284 (11th Cir. 2015); Ledford, 856 F.3d at 1315. Because Rhines' complaint is barred by res judicata, he cannot show a substantial

- likelihood of success on the merits and a stay of execution is not warranted. *Ledford*, 856 F.3d at 1316.
- 14. Nor is there a "significant possibility" that Rhines can succeed in proving that pentobarbital does not meet the classification of an ultrashort-acting barbiturate as contemplated by SDCL 23A-27A-32 as codified at the time Rhines was convicted. *Hill*, 547 U.S. at 584.
- 15. SDCL 23A-27A-32 does not specify sodium thiopental. It permits the use of any drug that meets the classification of an ultrashort-acting barbiturate. Courts have consistently found that there is no material difference between sodium thiopental and pentobarbital:
 - a. In Ringo v. Lombardi, 677 F.3d 793 (8th Cir. 2012), the court observed that "each court to consider the issue has uniformly held that the use of pentobarbital in lieu of sodium thiopental" is not a material alteration to an execution protocol.
 - b. In *Powell v. Thomas*, 641 F.3d 1255, 1258 (11th Cir. 2011) the court stated that "[t]he replacement of sodium thiopental with pentobarbital does not constitute a significant alteration in the lethal injection protocol."
 - c. In Pavatt v. Jones, 627 F.3d 1336, 1338 (10th Cir. 2010), the court rejected an 8th Amendment challenge to Oklahoma's lethal injection protocol based on the state's substitution of pentobarbital for sodium thiopental. Though Oklahoma's statute, like South Dakota's, expressly required the use of an ultrashort-acting barbiturate, the

Pavatt court found that the change was not sufficiently substantial to rise to the level of a legitimate claim of entitlement protected by due process. The Pavatt court also noted that Oklahoma's statute was "not entirely clear" whether the legislature used the term "ultrashort-acting" in the sense of how quickly the drug took effect or the duration of effect. Pavatt, 627 F.3d at 1340, n. 3.

- d. In Jackson v. Danberg, 656 F.3d 157, 160 (3rd Cir. 2011), the court observed that "[p]entobarbital is a barbiturate commonly used to euthanize terminally ill patients who seek death with dignity in states such as Oregon and Washington." Quoting Beaty, 649 F.3d at 1075 (denying rehearing en banc because inmate had no likelihood of success on 8th Amendment claim based on switch to pentobarbital).
- e. In Ferguson v. Florida State Prison, 493 Fed.Appx. 22, *2 (11th Cir. 2012), the court stated that "the use of sodium pentobarbital as the first drug in the three-drug sequence does not constitute a substantial change" to Florida's execution protocol. Valle v. Singer, 655 F.3d 1223, 1230 (11th Cir. 2011)(replacement of sodium thiopental with pentobarbital does not constitute a significant alteration of the execution protocol).
- f. Powell v. Thomas, 643 F.3d 1300, 1304 (11th Cir. 2011), noted the minimal differences between sodium thiopental and sodium pentobarbital, both being "classified as barbituates" and differing only

- "in their length of effect," which "simply means [that pentobarbital's] effect lasts longer than that of sodium thiopental."
- g. In Jordan v. Fisher, 823 F.3d 805, 811 (5th Cir. 2016), where the state planned to use pentobarbital in the execution of three inmates, the inmates, like Rhines, complained that state law "prevent[ed] the state from executing them using any drugs other than 'an ultrashort-acting barbiturate." The court ruled that switching from sodium thiopental to pentobarbital did not implicate any liberty interest.
- 16. The cases finding no significant difference between sodium thiopental and pentobarbital are consistent with the testimony of the experts who testified in Rhines' method of execution challenge (including Rhines' own expert, Dr. Heath) and the state's experiences with sodium thiopental and pentobarbital in prior executions.
- 17. Dr. Alan Dershwitz, an anesthesiologist, testified on behalf of the state.
 According to Dr. Dershwitz:
 - a. "[O]nce 5,000 mg [5g] of pentobarbital have been administered intravenously to an inmate, there is, to a reasonable degree of medical certainty, an exceedingly remote chance that the inmate could experience the effects of the subsequently administered pancuronium bromide . . . A dose of 5,000 mg of pentobarbital will cause virtually all persons to stop breathing. In addition, a dose of 5,000 mg of pentobarbital will cause the blood pressure to decrease to such a degree that perfusion of blood to organs will cease or decline such

- that it is inadequate to sustain life [V]irtually every person given 5,000 mg of pentobarbital will have stopped breathing prior to the administration of pancuronium bromide. Thus, even in the absence of the administration of pancuronium bromide . . . the administration of 5,000 mg of pentobarbital by itself would cause death in almost everyone." DERSHWITZ AFFIDAVIT at ¶¶ 12-13, Exhibit 7.
- b. In finding no significant difference between sodium thiopental and pentobarbital, the *Pavatt* court stated Dr. Dershwitz's similar testimony in that case "persuasively characterized a 5,000 milligram dose of pentobarbital as 'an enormous overdose' that 'would cause a flat line of the EEG, which is the deepest measurable effect of a central nervous system depressant' and 'would be lethal as a result of two physiological responses:' the cessation of respiration and the drop in blood pressure 'to an unsurvivable level." *Pavatt*, 627 F.3d at 1339. The *Pavatt* court also stated that Dr. Dershwitz "credibly testified . . . that the 5,000 milligram dosage will give rise . . . to a virtually nil likelihood that the inmate will feel the effects of the subsequently administered vecuronium bromide." *Pavatt*, 627 F.3d at 1339. See also *Valle*, 655 F.3d at 1230 (finding Dr. Dershwitz's testimony that a massive dose of pentobarbital will reliably and swiftly produce death convincing).
- c. In his videotaped testimony in Rhines' method of execution challenge,
 Dr. Dershwitz stated that:

- i. "When pentobarbital is injected intravenously, it has an onset of effect that is almost immediate. Within thirty to forty-five seconds after the drug reaches the brain, the person would be expected to lose consciousness. DERSHWITZ TESTIMONY at 9/20, excerpt attached as Exhibit 3.
- ii. "[P]entobarbital will have this profound effect to decrease circulation, it will stop breathing within a minute or two of its administration." DERSHWITZ TESTIMONY at 11/5, excerpt attached as Exhibit 3.
- iii. When asked whether a 2-drug protocol of pentobarbital and a paralytic would have the same effect as he described above, Dr. Dershwitz testified that it would. DERSHWITZ TESTIMONY at 21/22, excerpt attached as Exhibit 3.
- iv. When asked whether the descriptions provided by the warden of how Eric Robert and Donald Moeller had responded to a 5 gram (5,000 mg) dose of pentobarbital were consistent with the effects that he had previously described, Dr. Dershwitz testified "[y]es, and in fact, the warden's description, although given by a medical layperson, does not differ from what [he] observe[s] when [he] give[s] patients an intravenous drug to cause them to enter a general anesthetic state." DERSHWITZ TESTIMONY at 21/22, excerpt attached as Exhibit 3.

- 18. Dr. Mark Heath, an anesthesiologist, testified for Rhines in his method of execution challenge (and for the inmate in *Smith v. Mont. Dept. of Corrections*, 2015 WL 5827252 (Mont.Dist.1)). Dr Heath's prior testimony supports the state's position that pentobarbital meets the same classification standards as sodium thiopental (which likely explains his conspicuous absence here at the end stage of Rhines' litigation):
 - a. Dr. Heath testified that, while "barbiturates are typically divided into classes, depending on how rapidly they exert their action and for how long the exert their action . . . there are different ways that people do it." According to Dr. Heath, "pentobarbital is typically put into the short- or medium-acting categories depending on which author is referring to it." Dr. Heath's testimony in Rhines' case (like his testimony in the Smith case) reflects that there are "different ways" to classify the same barbiturate depending on performance factors and application. HEATH RHINES TESTIMONY at 21/10, excerpt attached as Exhibit 8.
 - b. Dr. Heath, Rhines' own erstwhile expert, fudges noticeable with the adverb typically. "Typically" is hardly categorical, inherently admitting of contexts where it can meet the ultrashort-acting classification depending on recognized medical variables. One such context is in procedural sedation and analgesia in pediatric emergency medicine where physicians regard "[p]entobarbital [a]s an ultra-short acting barbiturate" that is "very useful for sedation prior to

diagnostic imaging procedures" when "given intravenously."

Meredith, Pediatric Procedural Sedation And Analgesia, 1:2 JOURNAL

OF EMERGENCIES, TRAUMA AND SHOCK 88 (2008). In a high-dosage
context, "pentobarbital – like the 'ultrashort-acting' drugs thiopental
and methohexital – is both a myocardial depressant (a decrease in SVI
with unchanging PCWP) and a vasodilator (a decrease in SVRI and
evidence for venodilation)." Todd, Drummond and Sang,

Hemodynamic Effects of High Dose Pentobarbital: Studies in Elective
Neurosurgical Patients, 20 Neurosurgery 559 (1987).

- c. According to Dr. Heath, "[i]f the intended dose of pentobarbital were to be successfully delivered into the circulation of a person and carried to their brain in this dose [5,000 mg] it would cause complete depression of all the brain activity such that there would be no electrical activity in the brain whatsoever. The electrical activity of the brain sustains many important bodily functions, but in particular it sustain[s] respiration, the rhythmic breathing, that we do all the time and when pentobarbital or any barbiturate would stop all activity in the brain . . . [i]t would stop breathing from occurring." HEATH RHINES TESTIMONY at 23/3, excerpt attached as Exhibit 8.
- d. In testimony given by Dr. Heath in the Saar case (which was used to impeach his testimony in Rhines' method of execution challenge) Dr. Heath testified that sodium thiopental, like pentobarbital, will

- produce death in 60 seconds. HEATH SAAR TESTIMONY at 70/16, 71/13, excerpt attached as Exhibit 9.
- e. In Rhines' method of execution challenge, Dr. Heath testified that, like sodium thiopental, the respiratory arrest secondary to brain inactivity secondary to pentobarbital administration occurs within "60 seconds." HEATH RHINES TESTIMONY at 81/19, 87/4, excerpt attached as Exhibit 8.
- f. In the Cooey case, when asked how long an execution would take using massive doses of sodium thiopental, Dr. Heath (in the context of a discussion concerning the efficacy of pentobarbital) stated that it "would be the same as using massive doses of some other anesthetic." HEATH COOEY TESTIMONY at 40, excerpt attached as Exhibit 10. In fact, believing that Ohio could not carry out an execution because it did not have pentobarbital, Dr. Heath extolled pentobarbital as superior to sodium thiopental and testified that it should be used instead. As an example, Dr. Heath referenced an execution using sodium thiopental that had taken 14 minutes start to finish and opined that "if you give a massive dose of pentobarbital, which can be done very quickly, in all likelihood the person is going to be dead in ... less time than that [e.g. less than 14 minutes]." HEATH COOEY TESTIMONY at 41, excerpt attached as Exhibit 10. When asked to describe the difference between administering pentobarbital and sodium thiopental, Dr. Heath testified that "[sodium] thiopental is

given in large volumes, and so it takes a long time. It can take longer to get it in. One can give a comparable or a larger dose of pentobarbital more quickly." HEATH COOEY TESTIMONY at 41, excerpt attached as Exhibit 10. Dr. Heath even went so far as to state that, if states would simply use pentobarbital instead of sodium thiopental "there would be no litigation, or at least I would not participate in the litigation, or I would work for your [the state's] side to say that I think this is a safe and humane procedure." HEATH COOEY TESTIMONY at 70, excerpt attached as Exhibit 10.

g. Dr. Heath, of course, did not testify for Montana when it switched to pentobarbital (as he piously professed he would if only states would use it!!!). Instead, in Smith (again on behalf of the inmate) Dr. Heath testified to the exact opposite of his testimony in Cooey, claiming that pentobarbital is not the "same as" sodium thiopental and is slower. Apparently not aware of Dr. Heath's Saar and Cooey testimony, the Smith court credited his testimony over the state's expert, Dr. Evans, because it believed Dr. Heath's Smith testimony was "consistent" with his testimony in certain, undescribed prior cases while Dr. Evans' allegedly was not. Smith, 2015 WL 58827252 at *4. The Smith court's lack of awareness of Dr. Heath's testimonial prevarication over the years undoubtedly influenced the court to believe that barbiturate classifications are stricter than they really are, and probably changed the outcome of the case. One wonders if the Smith court would have

been so enamored of Dr. Heath if it had been aware of the sweeping inconsistencies in his testimony over the years and the widespread rejection of his opinions and testimony as a basis for holding a lethal injection protocol unconstitutional or for staying an execution by courts.¹

¹ Durr v. Strickland, 602 F.3d 789 (6th Cir. 2010) (Heath testimony alleging inmate suffered from allergy to anesthetic was not sufficiently convincing to warrant stay of execution); Cooey et al. v. Strickland, 589 F.3d 210 (6th Cir. 2009)(Heath testimony focusing on risks of improper implementation of Ohio protocol did not raise constitutionally significant concerns warranting a stay of execution); Grayson v. Allen, 491 F.3d 1318 (11th Cir. 2007) (Heath testimony failed to present sufficient issued to prevent dismissal of inmate's claim as untimely filed); Taylor v. Crawford, 487 F.3d 1072 (8th Cir. 2007) (Heath testimony failed to convince court to hold written method of execution protocol unconstitutional); Workman v. Bredesen, 486 F.3d 896 (6th Cir. 2007)(Heath affidavit did not establish likelihood of inmate's success on the merits of motion to suspend his execution); Brown v. Beck, 445 F.3d 752 (4th Cir. 2006)(Heath testimony not persuasive enough to secure injunction enjoining inmate's execution); Cooper v. Rimmer, 358 F.3d 655 (9th Cir. 2004) (Heath testimony failed to show that lethal injection procedure involved an unnecessary risk of unconstitutional pain or suffering as would warrant stay of execution); Brown v. Crawford, 408 F.3d 1027 (8th Cir. 2005) (Heath affidavit falled to convince court to stay inmate's execution); Cooey et al. v. Strickland, 2010 WL 1610608 (S.D.Ohio) (Heath failed to convince trial court that plaintiff Durr's alleged anesthetic allergy likely to cause pain and suffering); Cooey et al. v. Strickland, 2009 WL 4842393 (S.D.Ohio)(Heath testimony failed to persuade trial court of a substantial likelihood that plaintiff Biros would succeed on the merits of his claim challenging constitutionality of Ohio's lethal injection protocol as would warrant stay of execution); Cooey et al. v. Strickland, 610 F.Supp.2d 853 (S.D.Ohio 2009)(Heath testimony failed to demonstrate that plaintiff Biros was likely to succeed on his claim that Ohio's method of execution protocol was constitutionally flawed); Grayson v. Allen, 499 F.Supp.2d 1228 (M.D.Ala. 2007)(Heath testimony failed to demonstrate that inmate was entitled to a stay of execution); Hankins v. Quarterman, 2007 WL 959040 (N.D.Tex.) (Heath testimony "fell short of showing that the inmate was subject to an unnecessary risk of unconstitutional pain"); Morales v. Hickman, 415 F.Supp.2d 1037 (N.D.Cal. 2006)(despite Heath testimony, court found protocol constitutional so long as protocol was amended to include consciousness check); Evans v. Saar, 412 F.Supp.2d 519 (D.Md. 2006)(Heath testimony failed to establish that state's three-drug protocol constituted cruel and unusual punishment as would support inmate's motion for a TRO); Beardslee v. Woodford, 2005 WL 40073 (N.D.Cal.)(Heath testimony insufficient to demonstrate any reasonably possibility that inmate would be conscious after injection with sodium thiopental); Reid v. Johnson, 333 F.Supp.2d 543 (E.D.Va. 2004)(Heath testimony failed to establish that inmate was likely to suffer irreparable harm as a result of state's protocol for carrying out death sentence by lethal injection); Harris v. Johnson, 376 F.3d 414 (S.D.Tex. 2004) (reversing stay entered by trial court); Ringo v. Lombardi, 2011 WL 2584476 (W.D.Mo.)(finding that Heath's testimony concerning the use of non-medical personnel to push the IV and the use of drugs without a prescription failed to demonstrate that the inmate would suffer an injury in fact); Baker v. Saar, 402 F.Supp.2d 606 (D.Md. 2005) (Heath testimony did not warrant stay of execution); Nooner v. Norris, 2008 WL 3211290 (E.D.Ark. 2008)(Heath failed to convince court to stay execution); In re: Lewis Williams, 359 F.3d 811 (6th Cir. 2004) (inmate not entitled to stay of

h. While Rhines' current expert, Dr. Craig Stevens, lacks Dr. Heath's breadth of experience, he does not appear to lack the zeal for distorting science in service of thwarting the implementation of the death penalty. In one of the 5 death penalty cases he appears to have participated in to date, the court ruled that he had filed a "sham" report, describing the report's methodological flaws in exacting detail.

Loden v. State, 264 So.3d 707, 711-12 (Miss. 2019). Another court simply dismissed his testimony because he had failed to "cite probative support for his conclusions" about midazolam. Jordan v. State, 266 So.3d 986 (Miss. 2018).

Dr. Heath's tactic in *Smith* (and basically all cases in which he testifies), is to assert that a state should be using the drug it *doesn't* have. When Ohio had sodium thiopental, Dr. Heath claimed in *Cooey* that pentobarbital was superior; when Montana had pentobarbital, Dr. Heath claimed sodium thiopental was superior. Dr. Heath is an avowed anti-death penalty zealot whose testimonial track record reveals more

execution based on Heath affidavit); Malicoat v. State, 137 P.3d 1234 (Ct.App.Ok. 2006) (denying stay notwithstanding Heath affidavit's criticism of protocol); Broom v. Jenkins, 2019 WL 1299846 (D.Ct.N.D.Ohio)(denying leave to amend complaint based on claim that inmate could not be executed because it was not possible to access a vein and rejecting Dr. Heath's claim that execution team was "incompetent"); Asay v. Florida, 224 So.3d 695 (Fla. 2017) (rejecting Dr. Heath's testimony that use of etomidate in an execution posed a substantial risk of harm to the inmate); Ringo v. Roper, 766 F.3d 880 (8th Cir. 2014)(denying stay of execution despite Dr. Heath's testimony against use of midazolam in execution); Muhammad v. Florida, 132 So.3d 176 (Fla. 2013) and Muhammad v. Florida, 739 F.3d 683 (11th Cir. 2014) (denying stay of execution despite Dr. Heath's testimony against use of midazolam in execution); Pardo v. Florida, 108 So.3d 558 (Fla. 2012) and Pardo v. Palmer, 2012 WL 6106331 (D.Ct.Fla.) (denying stay of execution over Dr. Heath's assertion that pentobarbital would not sufficiently anesthetize the inmate against subsequent drugs in the protocol); Thorson v. Epps, 2011 WL 13177527 (D.Ct.N.D.Miss.)(affirming use of pentobarbital in lieu of sodium thiopental contrary to Dr. Heath's testimony that pentobarbital would not adequately anesthetize inmate).

devotion to that cause than to objective medical science. HEATH RHINES TESTIMONY at 63/5-67/10, excerpt attached as Exhibit 8; HEATH SMITH DEPOSITION at 13/12, excerpt attached as Exhibit 11 (Dr. Heath wrote of his "strong opposition to the imposition of the death penalty")

- 19. Eyewitness accounts of executions conducted in South Dakota confirm that, as Dr. Heath himself has reported, pentobarbital is the "same as" sodium thiopental:
 - a. During the execution of Elijah Page (who tortured Chester Poage for hours beating and kicking him, poisoning him, stabbing him, drowning him and ultimately beating his skull in with a rock), Warden Weber and other witnesses reported that the execution was performed "like clockwork" and that "it was just a matter of seconds" after the administration of sodium thiopental that Page started "snoring, and his chest heaved a couple times." WEBER 23AUG10 AFFIDAVIT at ¶ 7, Exhibit 12. Page's "death occurred within a matter of minutes." WEBER 23AUG10 AFFIDAVIT at ¶ 10, Exhibit 12.
 - b. As with Page, Eric Robert (who bludgeoned Correctional Officer Ron Johnson with a lead pipe, breaking his bones, amputating a finger, cracking his skull open and exposing his brain before suffocating him with plastic wrap) was "conscious for only 45 seconds" following the administration of a massive dose of pentobarbital. Robert "expelled his last breath approximately 90 seconds" after administration of the

- drug. "Robert exhibited virtually no signs of pain or physical distress during either the seconds he remained conscious after the injection commenced or during the period of unconsciousness before he died.

 WEBER 220CT12 AFFIDAVIT at ¶¶3, 4, Exhibit 13.
- c. During the execution of Donald Moeller (who kidnapped, beat, stabbed, raped and cut the throat of 9-year-old Becky O'Connell), Moeller uttered a final sentence about 30 seconds after the warden signaled to commence the administration of the drugs. Moeller lost consciousness about 15 seconds later and "expelled a few last deep breaths approximately 60 seconds after [the warden] signaled to commence the injection." WEBER 1NOV12 AFFIDAVIT at ¶4, Exhibit 14. Media witnesses described the process as "very quick" and that Moeller was "gone" in "a matter of [a] minute." WEBER 1NOV12 AFFIDAVIT at ¶5, Exhibit 14.

The performance of pentobarbital during the executions of Robert and Moeller conform to Dr Heath's description in *Saar* of the performance of sodium thiopental in an execution setting – that sodium thiopental will produce death in 60 seconds. HEATH SAAR TESTIMONY at 70/16, 71/13, excerpt attached as Exhibit 9.

20. Which brings us to the debacle of facile statutory construction and result-oriented reasoning that is the *Smith* decision. As here, the inmate in *Smith* claimed that the use of pentobarbital for his execution did not conform to a statute requiring an "ultrashort-acting barbiturate."

Applying a literal interpretation of the statute and rigid approach to general barbiturate classifications, the *Smith* court agreed and shamefully enjoined the use of pentobarbital for the execution of a vicious killer.²

a. The Smith court's decision rests on the central fallacy that the classification or performance of an ultrashort-acting barbiturate that the legislature had in mind was according to its use "in a clinical setting." Courts have consistently rejected the proposition that an execution is a medical procedure subject to medical or clinical standards. In Baze v. Rees, 553 U.S. 35, 60 (2008), rejected the application of medical standards of practice to the execution context.

² State v. Smith, 705 P.2d 1087 (Mont. 1985) ("On August 4, 1982, defendant kidnapped and killed Harvey Mad Man, Jr., and Thomas Running Rabbit, Jr., at a remote location near U.S. Highway 2, west of the eastern border of Flathead County. On August 3, 1982, the defendant and two companions, Andre Fontaine and Rodney Munro, had departed from Alberta, Canada. The three encountered the two victims, Mad Man and Running Rabbit, at a bar in East Glacier, Montana. While at the bar, the three shot pool and drank beer with Mad Man and Running Rabbit. The three left the bar in East Glacier and hitchhiked west along Highway 2. There had been discussion between the defendant and Andre Fontaine about stealing a car and the need to eliminate any witnesses to the theft. Shortly thereafter, the three men were picked up by Mad Man and Running Rabbit. The men drove for approximate twenty minutes and stopped to allow Mad Man and Running Rabbit to relive themselves. When the two men got back into the car, the defendant pulled a sawed-off single bolt action .22 rifle, brought illegally into this country, and pointed it at the driver. Munro displayed his knife to the passenger. The defendant and Munro marched the two victims into the trees. The defendant shot Mad Man in the back of the head at point-blank range. He reloaded the rifle, walked several feet to where Thomas Running Rabbit had fallen to the ground upon being stabbed by Munro, and shot him in the temple at point-blank range. Both men were killed instantly. The defendant and the other two then stole the victim's car and proceeded to California").

³ See also *Gregg v. Georgia*, 428 U.S. 153, 173, 96 S.Ct. 2909 (1976)(constitution does not require the use of execution standards that may be medically optimal in other contexts); *Exparte Aguilar*, 2006 WL 1412666 (Tex.Crim.App. 2006)(doctors do not ordinarily prepare fluids for injection or insert or monitor IV lines in hospital settings); *Taylor v. Crawford*, 487 F.3d 1072, 1083 (8th Cir. 2007)(district court erred when it required state to have physician supervise execution); *Hamilton v. Jones*, 472 F.3d 814, 817 (10th Cir. 2007)(anesthetic monitoring such as is done in a surgical suite is not necessary in the execution chamber given the massive dosages of anesthetic that are administered).

Because medical standards are "drawn from a different context," they are not applicable in an execution setting. Baze, 553 U.S. at 60. See also Walker v. Johnson, 448 F.Supp.2d 719, 723 (E.D.Va. 2006) ("execution by lethal injection is not a medical procedure and does not require the same standard of care as one"). Even before Baze, Emmett v. Johnson, 511 F.Supp.2d 634, 642 (E.D.Va. 2007), ruled that making an "analogy to clinical medical standards in evaluating the methods used for conducting executions is without constitutional basis" because "surgery and execution have the polar opposite medical objectives." Emmett, 511 F.Supp.2d at 642.

- b. For statutes, like SDCL 23A-27A-32, that are written to meet constitutional standards, the analogy to clinical medical standards is equally inapposite. Lethal injection is "designed to ensure a quick, indeed a painless death, and thus there is no need for" standards applicable to "a hospital surgery suite" where the goal "is to ensure that the patient will wake up at the end of the procedure." Taylor v. Crawford, 487 F.3d 1072, 1084 (8th Cir. 2007).
- c. Despite the acknowledged discrepancy between clinical and execution standards, the *Smith* opinion repeatedly referenced clinical sources testimony from Dr. Heath founded on the performance of "both pentobarbital and thiopental" "in a clinical setting," "significant research that classifies thiopental as being ultrashort-acting" when used *in a clinical setting*, some 28,600 search engine results

describing sodium thiopental as ultrashort-acting in a clinical setting, a package insert classifying pentobarbital that had been manufactured for use in a clinical setting as short-acting. Smith, 2015 WL 5827252 at *3. Smith found clinical-based data such as these to be "[o]f significant import" to its decision. Smith, 2015 WL 5827252 at *3.

d. Smith's premise is flawed at its core. The Smith court apparently was oblivious to the then-recent decision of the United States Supreme Court in Glossip v. Gross, 135 S.Ct. 2726 (2015), in which the court expressly rejected measuring execution drug performance according to clinical standards. In Glossip, the inmate's expert, applying a clinical standard, opined that midazolam would not serve as a suitable anesthetic. To this Justice Alito replied:

Petitioners emphasize that midazolam is not recommended or approved for use as the sole anesthetic during painful surgery, but there are two reasons why this is not dispositive. First, as the District Court found, the 500-milligram dose at issue here "is many times higher than a normal therapeutic does of midazolam." The effect of a small dose of midazolam has minimal probative value about the effect of a 500-milligram dose. Second, the fact that a low dose of midazolam is not the best drug for maintaining unconsciousness during surgery says little about whether a 500milligram dose of midazolam is constitutionally adequate for purposes of conducting an execution. We recognized this point in Baze, where we concluded that although the medical standard of care might require the use of a blood pressure cuff and an electrocardiogram during surgeries, this does not mean those procedures are required for an execution to pass Eighth Amendment scrutiny.

Glossip, 135 S.Ct. at 2742, excerpt attached as Exhibit 15. Unlike the Glossip court, Smith failed to appreciate that the Montana legislature

- was not prescribing a barbiturate for use in a clinical setting; it was prescribing a drug for use in an execution setting. Comparing one to the other is comparing apples to oranges . . . cheese to chalk . . . donuts to dumptrucks. *Glossip*, 135 S.Ct. at 2742, Exhibit 15.
- e. As Smith correctly points out, and which is not disputed here, barbiturates are typically classified according to how quickly they wear off. Thus, "ultrashort-acting" and "short-acting" refer not, as the names might suggest to a layman, to the time it takes for the barbiturate to act on the system but to how long before it wears off. How quickly a barbiturate takes effect is described as "ultrafast-acting" or "fast-acting." Smith found that pentobarbital was short-and fast-acting based on its clinical classification and enjoined its use in Smith's execution. Smith, 2015 WL 5827252 at *5.
- f. This was a glaring error. According to Glossip, the "probative" question is how a drug will perform in an execution. Glossip, 135 S.Ct. at 2742, Exhibit 15. According to Glossip, "[t]he relevant question" was whether midazolam was suitable in "the huge dose administered in the Oklahoma protocol." Glossip, 135 S.Ct. at 2743, Exhibit 15.
- g. Smith did not address "[t]he relevant question;" instead it fixed on standards having "minimal probative value" to high-dosage administrations of pentobarbital. Glossip, 135 S.Ct. at 2743, Exhibit 15. Clearly the Montana legislature was not contemplating the

clinical classification or properties of the barbiturate that it was prescribing for use in an execution. Prescribing a barbiturate for execution based on a clinical propensity to wear off quickly (ultrashort-acting) would defeat the purpose of the execution. To administer a clinical dosage of sodium thiopental only to have Smith wake up 5-8 minutes later would thwart the purpose of execution and frustrate the statute. Thus, the Montana legislature clearly was not prescribing a barbiturate for execution purposes based on its ultrashort-acting properties in a clinical setting. The legislature clearly contemplated that any drug used would meet the performance criteria of an ultrafast-/ultrashort-acting drug in a high-dosage, execution setting.

h. In a clinical setting, an ultrafast-/ultrashort-acting barbiturate (according to Rhines' current expert, Dr. Stevens) will take effect "within 10-30" seconds." According to the testimony of Rhines' former expert, Dr. Heath, in Saar, an ultrafast-/ultrashort-acting barbiturate will take effect and shut down respiration in 60 seconds. According to Dr. Heath's deposition testimony in Smith, an ultrafast-/ultrashort-acting barbiturate takes effect in "20 to 30 seconds." HEATH SMITH DEPOSITION at 26/19, Exhibit 11. Elsewhere in his Smith testimony, Dr. Heath states that sodium thiopental administered at its "fastest possible" rate would still take "some tens of seconds to transition from full consciousness to full and deep unconsciousness." HEATH SMITH

- DEPOSITION at 79/15, Exhibit 11. This is the same as pentobarbital in an execution setting, which, according to Dr. Heath takes effect in "several tens" of seconds, "10, 20, 30" seconds depending on variables like heart rate or how good an inmate's circulatory system is. HEATH SMITH DEPOSITION at 39/11, Exhibit 11.
- i. Even if a clinical dose of pentobarbital would not act as fast as a clinical dose of sodium thiopental, Dr. Heath admitted in *Smith* that "[i]f one gave a dose [of pentobarbital] higher than, as with most drugs, the more one gives, the more rapidly one sees the effects." HEATH SMITH DEPOSITION at 30/9, Exhibit 11. According to Dr. Heath, the time it takes to travel from the injection site to the brain is the same for a large or small dose of a drug, but "all drugs that are used to produce sedation and unconsciousness will exert their effects at a more rapid rate if you give more." HEATH SMITH DEPOSITION at 31/4, Exhibit 11. In other words, high-dosage pentobarbital acts as fast or faster than a clinical dose of sodium thiopental.
- j. Ultimately, it is not necessary to agonizingly extrapolate the matching performance of clinical sodium thiopental and high-dosage pentobarbital from twee comparisons of disparate bits of Dr. Heath's vacillating testimony in his myriad cases over time. Dr. Heath put a bow on it in his *Smith* deposition testimony; when finally pushed to stop splitting hairs over clinical classifications and speculative administration mishaps, Dr. Heath was forced to admit in *Smith* that

"[i]f proper administration of the drug occurs, whether it is thiopental or pentobarbital, if proper administration occurs in the intended multi-gram [execution setting] dose into the circulation and carried to the brain, then there's no difference between the drugs, because both will produce deep unconsciousness that will outlast the duration of the execution." HEATH SMITH DEPOSITION at 89/22-90/5, Exhibit 11.

- k. Just as a clinical dose of sodium thiopental would not be effective to perform an execution, it is just as clear that, in the context of an execution, sodium thiopental is *not* an ultrashort-acting barbiturate because it never wears off. In an execution setting, a 3-5 gram dose of sodium thiopental will "outlast the duration of the execution."

 HEATH SMITH DEPOSITION at 89/22-90/5, Exhibit 11. Smith's literal application of clinical classifications to an execution statute renders the statute inoperable; a clinical dose of sodium thiopental would not be sufficient to produce death, and the duration of effect of a lethal dose places the drug well outside the classification of ultrashort-acting.
- I. Like Glossip, the Pavatt court noted the inherent contradiction of applying a strict clinical classification in an execution setting. Pavatt found that it was "not entirely clear" that Oklahoma's statute used the term "ultrashort-acting" in the clinical sense of how short it lasts.

 Pavatt, 627 F.3d at 1340 n. 3. Given that short action is not desirable

- in an execution context, the *Pavatt* court sensibly believed that the statute used the term ultrashort-acting "in a different sense, to refer to how quickly the barbiturate takes effect." *Pavatt*, 627 F.3d at 1340 n. 3. The *Pavatt* court's observation makes sense given the 8th Amendment mandate to eliminate to the extent possible any conscious suffering secondary to cessation of respiration.
- m. Likewise, in Owens v. Hill, 758 S.E.2d 794, 802 (Ga. 2014), the court rejected the clinical mainstay of sterilized drugs as having any application in an execution setting. "[S]terility is simply a meaningless issue in an execution where, as the record showed, unconsciousness will set in almost instantaneously from a massive overdose of anesthetic, death will follow shortly afterward before consciousness is regained, and the prisoner will never have an opportunity to suffer the negative medical effects from infection or allergic reactions from a possibly non-sterile drug. Particularly unpersuasive is Hill's expert's testimony that certain contaminants also could have the following effect: Their blood pressure would drop precipitously, and ultimately its possible that they could die.' Such a side effect obviously would be shockingly undesirable in the practice of medicine, but it is certainly not a worry in an execution [S]uch a side effect would be irrelevant in an execution inducing nearly instantaneous unconsciousness and the rapid onset of death before consciousness is regained." Owens, 758 S.E.2d at 802.

- 21. In the *Smith* court's defense, its decision could only be as good as the evidence before it. The decision does not reflect that a *Glossip* argument was squarely presented to the *Smith* court. *Smith*'s focus on clinical classifications in texts, testimony, literature, manufacturer package inserts and other sources, and the fact that *Glossip* is not even mentioned in the opinion, rather affirmatively demonstrates that it was not. But, as *Glossip* found, clinical performance has "minimal probative value;" "the relevant question" is the drug's performance in the dosage administered in an execution. *Glossip*, 135 S.Ct. at 2742. The evidence conclusively demonstrates that execution dosages of pentobarbital meet the classifications of an ultrashort-acting barbiturate.
- 22. Consistent with Glossip, Dr. Joseph Antognini, a distinguished anesthesiologist, describes for the court how a "short-acting" drug can behave like an "ultrashort-acting drug," and vice-versa, depending on variables such as dosage or method of administration:
 - a. In high dosages "the actions of pentobarbital . . . are consistent with the actions of an ultra-fast acting/ultra-short acting barbiturate that is administered in a large lethal dose." ANTOGNINI REPORT at ¶11, Exhibit 16.
 - b. Barbiturate "classification is not absolute, and depends in large part on the dose of the drug and the route it is administered (oral versus intravenous)." ANTOGNINI REPORT at ¶12, Exhibit 16.

- c. A prevailing textbook at the time of SDCL 23A-27A-32's codification reported that the classifications of barbiturates are "often altered depending on the route of administration (oral versus intravenous) [and] dose." ANTOGNINI REPORT at ¶13, Exhibit 16, citing Miller's Anesthesia (1st Ed. 1981).
- d. Studies report that classifications of barbiturates are so inexact,

 "dose-dependent," and archaic that "[i]t is surprising that th[ese]

 classification[s] still persist in pharmacology textbooks." ANTOGNINI

 REPORT at ¶¶14, 15, Exhibit 16.
- e. A textbook written by Rhines' own expert in this case, Dr. Craig Stevens, demonstrates the fluidity of barbiturate classification.

 Though Dr. Stevens tells this court that there are only "two ultrashort-acting barbiturates: sodium thiopental and methohexital," his textbook identifies both sodium thiopental and pentobarbital as short-acting. ANTOGNINI REPORT at ¶ 16, Exhibit 16, citing Brenner and Stevens, Pharmacology at 209, Table 19-1 (2018). A single table in Dr. Stevens' own textbook refutes his two central points: that barbiturate classifications are rigid and "widely accepted" and that sodium thiopental and pentobarbital are different.
- f. Barbiturates can meet different classification criteria depending on dosage. ANTOGNINI REPORT at ¶17, Exhibit 16; HEATH SMITH DEPOSITION at 89/22-90/5, Exhibit 11; HEATH COOEY TESTIMONY at 40, excerpt attached as Exhibit 10.

- g. In the execution context, classification of sodium thiopental as "ultrashort acting" is "meaningless" because the drug's duration of action at that dosage would far exceed the time criterion for that classification.

 ANTOGNINI REPORT at ¶18, Exhibit 16. High dosage, intravenous administration alters pentobarbital's properties to match those of sodium thiopental in an execution setting. ANTOGNINI REPORT at ¶13, Exhibit 16, citing Miller's Anesthesia (1st Ed. 1981).
- h. As noted in *Smith* and by Dr. Heath, "the purpose of the development of ultra-fast-acting barbiturates" is "a very quick transition from consciousness to unconsciousness." ANTOGNINI REPORT at ¶18, Exhibit 16. "[P]entobarbital at the dose administered in the South Dakota protocol (5 grams) would induce rapid unconscious within 20-30 seconds," consistent with the classification criteria of an ultrashort-acting barbiturate. ANTOGNINI REPORT at ¶¶20, 21, Charts C and D, Exhibit 16.
- i. "[A] drug that is typically considered 'short-acting' can be 'ultra-short acting," and . . . an 'ultra-short acting' drug can be 'short-acting' depending on the variable of dosage" and route of administration.

 ANTOGNINI REPORT at Charts C and D, Exhibit 16. "When a drug is given intravenously, there is typically a vary rapid rise in the concentration A typical clinical dose is the general baseline for classifying drugs as 'ultra-short-' or 'short-acting.' But, since duration of action is a function of dosage, the classification can change if the

dosage changes." ANTOGNINI REPORT at Charts C and D, Exhibit 16.

- 23. Here, the *Smith* decision is more instructive of what *not* to do than *what* to do. "[I]t is . . . a well-established canon of statutory construction that 'a statute susceptible of more than one meaning must be read in the manner which effectuates rather than frustrates the major purpose of the legislative draftsmen." *In re Goerg*, 844 F.2d 1562, 1567 (11th Cir. 1988), quoting *Schultz v. Louisianan Trailer Sales*, *Inc.*, 428 F.2d 61, 65 (5th Cir. 1970). "[I]n cases where a literal approach would functionally annul the law, the cardinal purpose of statutory construction ascertain legislative intent ought not be limited to simply reading a statute's bare language; we must also reflect upon the purpose of the enactment, the matter sought to be corrected and the goal to be attained." *State v. Cameron*, 1999 SD 70, ¶21, 596 N.W.2d 49, 54, quoting *Desmet Ins. of South Dakota v. Gibson*, 1996 SD 102, ¶7, 552 N.W.2d 98, 100.
- 24. As used in SDCL 23A-27A-32 as codified at the time of Rhines' conviction, the term "ultrashort-acting barbiturate" is arguably susceptible of two meanings clinical or lethal. The state would argue that its meaning, in the context of a lethal injection statute, is limited to its properties as a lethal agent, but *Smith* demonstrates that minds can differ. Since "ultrashort-acting barbiturate" is susceptible of two meanings, it must be given a construction here that does not thwart the statute's purpose or render it an absurdity.

- a. Rhines' interpretation of the statute is absurd for two reasons. First, a clinical dosage of sodium thiopental would not effect death; he would wake up in 5-8 minutes. Second, a lethal dosage of sodium thiopental is not ultrashort-acting. As Dr. Heath points out, sodium thiopental in a lethal dose will "outlast the duration of the execution." HEATH SMITH DEPOSITION at 89/22-90/5, Exhibit I1. As Dr. Antognini points out, this duration would exceed the time-criterion for ultrashort-acting. ANTOGNINI REPORT at ¶18, 20, Chart D, Exhibit 16. Rhines' literal interpretation would annul the statute because no drug could qualify. Cameron, 1999 SD 70 at ¶21, 596 N.W.2d at 54.
- b. The state's interpretation is both logical and consistent with SDCL 23A-27A-32's purpose. In the context of a lethal injection statute, it makes more sense, as *Glossip* points out, to classify drugs based on their lethal rather than clinical properties. And, as *Pavatt* pointed out, the performance metric of interest to the legislature was not how short the drug lasted but how quickly it took effect. All evidence, Rhines' own especially, demonstrates that pentobarbital acts in an ultrafast manner in an execution setting.
- c. The legislature's intent in drafting SDCL 23A-27A-32 was to meet constitutional standards for execution and therefore must be interpreted in light of the numerous cases which have held that there is no constitutional difference between sodium thiopental and

- pentobarbital. If there is no constitutional difference, there is no statutory difference.
- 25. Rhines cannot demonstrate a "significant possibility" of succeeding on the merits of his claim. Hill, 547 U.S. at 584.
 - a. The claim is barred by res judicata because Rhines could have litigated this claim in the method of execution litigation before Judge Trimble in 2011. As noted just days ago by the South Dakota Supreme Court, Rhines' complaint for declaratory judgment and injunctive relief before Judge Trimble "argued that the state's protocols violated due process" and that the issue of the process due Rhines under SDCL 23A-27A-32 as codified on the date of his conviction was "fully litigated during a court trial, which included expert medical testimony." Rhines v. S.D. Dept. of Corrections, 2019 SD 59, ¶3. The Supreme Court noted that the "circuit court reviewed the parties' evidence" and "made detailed findings of fact." Rhines, 2019 SD 59 at ¶4. Rhines filed a motion to appeal Judge Trimble's ruling but the Supreme Court "denied his motion, concluding that he had not demonstrated probable cause that an appealable issue existed." Rhines, 2019 SD 59 at ¶4. Rhines had a full and fair opportunity to litigate the state's alleged non-compliance with the process allegedly due him in his then-pending complaint for declaratory and injunctive relief. Though Rhines certainly could have, he did not take advantage of that opportunity to litigate this aspect of

the method of his execution. There has been a final judgment rendered on the process due Rhines under the statute. Rhines, 2019 SD 59 at ¶4. Consequently, Rhines' claims are firmly barred by principles of res judicata. Lippold v Meade Co. Bd. of Comm., 2018 SD 7, ¶28, 906 N.W.2d 917, 925.

- b. Nor can Rhines prevail on the substance of his claims. Rhines' gimmick of applying clinical standards to the execution setting has been rejected by the United States Supreme Court in *Baze* and *Glossip*. Rhines' clinical interpretation of SDCL 23A-27A-32 would render the statute a nullity. Given the 8th Amendment constraints that necessarily guide the legislature's actions in this context, the legislature's selection of an ultrashort-acting barbiturate obviously was driven by the speed with which the drug took effect, not by how quickly it wears off. *Pavatt*, 627 F.3d at 1340 n. 3.
- c. As Dr. Antognini points out, drugs can cross back and forth between classification boundaries depending on the method of administration and dosage given. Sodium thiopental administered in a low dosage at a slow rate would take effect slowly and wear off over a longer period of time; as such it could be considered slow-acting in terms of onset and short- or intermediate-acting in terms of duration. Pentobarbital administered in a massive dosage takes effect as fast as sodium thiopental or any other drug in the ultrashort-acting classification.

- ANTOGNINI REPORT at $\P\P$ 12, 16, 18, 20, Charts C and D, Exhibit 16.
- d. According to Rhines' own expert in the case before Judge Trimble, "there's no difference between the drugs." HEATH SMITH

 DEPOSITION at 89/22-90/5, Exhibit 11. Indeed, when Dr. Heath was on the warpath against sodium thiopental in the Cooey case, he stated that "[o]ne can give a comparable or a larger dose of pentobarbital more quickly" than sodium thiopental. HEATH COOEY TESTIMONY at 41, excerpt attached as Exhibit 10. Given the United States Supreme Court's preference for measuring an execution drug's performance according to high-dosage metrics, the South Dakota Supreme Court's approval of the protocol as codified on the date of Rhines' conviction 27 years ago, and the intrinsic absurdity of applying clinical standards to a non-therapeutic process, Rhines stands no realistic chance of succeeding on the merits of his claim.

iii. Delay

26. "Given the state's significant interest in enforcing its criminal judgments, there is a strong equitable presumption against the grant of a stay where a claim could have been brought at such a time as to allow consideration of the merits without requiring entry of a stay." Nelson, 541 U.S. at 650.

"[A] plaintiff cannot wait until a stay must be granted to enable him to develop facts and take the case to trial – not when there is no satisfactory explanation for the delay." Sepulvado v. Jindal, 729 F.3d 413, 420 (5th

- Cir. 2013), quoting Reese v. Livingston, 453 F.3d 289, 291 (5th Cir. 2006).

 A prisoner is not entitled to a stay in order to conduct discovery to make out a claim. Beaty v. Brewer, 649 F.3d 1071, 1075 (9th Cir. 2011).
- 27. Courts have often refused to grant a dilatory stay sought on the eve of an execution. For example, in *Ledford* the court denied a stay despite the fact that the inmate's claims were not necessarily barred by the statute of limitations because he had not been timely in waiting until five days before his execution to raise his claim. *Ledford*, 856 F.3d at 1315; *Crowe v. Donald*, 528 F.3d 1290, 1292 (11th Cir. 2008); *Diaz v. McDonough*, 472 F.3d 849, 851 (11th Cir. 2006); *Hill v. McDonough*, 464 F.3d 1256, 1259-60 (11th Cir. 2006). Also, in *Jones v. Allen*, 485 F.3d 635 (11th Cir. 2007), an inmate facing imminent execution filed a last-minute challenge to Alabama's protocol, which had been adopted four years earlier. The *Allen* court concluded that the inmate's delay "leaves little doubt that the real purpose behind his claim is to seek a delay of his execution, not merely to effect an alteration of the manner in which it is carried out." *Jones*, 485 F.3d at 640.
- 28. Similarly, here, South Dakota identified pentobarbital as one of two ultrashort-acting barbituates that would be used in its two-drug protocol 8 years ago. Yet, only 11 days from the week set for his execution, Rhines raises this challenge for the first time.
- 29. Rhines has failed to show any equitable basis for excusing his delay under these circumstances. *Ledford*, 856 F.3d at 1312. He has been

- sentenced to death for 26 years and, only now, with his execution imminent, has he decided to challenge this aspect of the procedure for lethal injection that the state has had in place for the last 8 years.

 Jones, 485 F.3d at 640.
- 30. Though the Smith case held a full trial on the inmate's statutory compliance claim, the significant difference between this case and Smith is that Smith did not wait until the last minute to bring his claim. A year ago Rhines, through the same lawyers that represent him here, brought a claim challenging the enactment of the policy on the grounds that it had not been promulgated by the APA. He should have brought this claim a year ago as well. Indeed, if Rhines thought this claim had any genuine merit, he would have brought it a year ago. The value in bringing it now is not to ultimately win, but just to obtain a stay.
- 31. This sort of last-minute, stay-baiting litigation is extremely prejudicial to the state because it forces the state to assemble a hasty defense and inhibits the state from marshalling its full best evidence against the claim. It prejudices the state's and victims' interests in Rhines serving his overdue sentence.
- 32. The injustice of further delay is a particularly intolerable here considering that, because of his violent criminal history, Rhines would have been sentenced to life in prison for the burglary and his first, non-fatal stab wound to Donnivan Schaeffer's stomach. Rhines' capital sentence is his punishment for pounding a hunting knife into the base of

Donnivan Schaeffer's skull and killing him. But so far, all he has served is life in prison, the same sentence he would be serving if he had walked out after stabbing Donnivan just once and let him live. In other words, he has not yet been punished for murdering Donnivan. It is time for him to be punished for this killing. Equity howls against delay in this case.

CONCLUSION

Because Rhines has failed to meet his burden of persuasion with a clear showing that law and equity favor his request for a stay of execution, his last-minute motion must be denied.

Dated this 28th day of October 2019.

JASON R. RAVNSBORG ATTORNEY GENERAL

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CERTIFICATE OF SERVICE

The undersigned hereby certifies that on this 27th day of Octoberl 2019 a true and correct copy of the foregoing response in opposition to plaintiff's motion for permanent injunction, temporary restraining order and stay of execution was served on Daniel R. Fritz via e-mail to fritzd@ballardspahr.com.

_Paul_S._Swedlund_____Paul S. Swedlund ASSISTANT ATTORNEY GENERAL

STATE OF SOUTH DAKOTA COUNTY OF PENNINGTON

CHARLES R. RHINES

Petitioner,

VS.

DOUGLAS WEBER, Warden, South Dakota State Penitentiary,

Respondent.

IN CIRCUIT COURT SEVENTH JUDICIAL CIRCUIT

CIV. 02-924

NOTICE OF ADOPTION OF REVISED EXECUTION POLICY AND PROTOCOL

Respondent Douglas Weber, by and through his counsel Paul S. Swedlund, Assistant Attorney General for the State of South Dakota, hereby files notice, as earlier requested by this court, of the method of execution policy and protocol prepared and adopted by respondent for use in the executions by lethal injection of condemned inmates in the State of South Dakota, including Charles R. Rhines. Respondent adopted this policy and protocol on October 19 and 13, 2011 respectively. The policy and protocol are modeled on, and are substantially similar to, one approved by the United States Supreme Court in Baze v. Rees, 553 U.S. 35, 128 S.Ct. 1520 (2008).

Respectfully submitted,

MARTY J. JACKLEY ATTORNEY GENERAL

Commence

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OCT 24 2011

EXHIBIT

Ranse Truman, Clerk of Courts

By _____ Deputy

CERTIFICATE OF SERVICE

The undersigned hereby certifies that on this 21st day of October 2011 a true and correct copy of the foregoing notice of adoption of revised execution policy and protocol was served by United States mail, first class, postage prepaid, on Jana Miner, Assistant Federal Public Defender, 101 South Pierre Street, Pierre, SD 57501.

Paul S. Swedlund

ASSISTANT ATTORNEY GENERAL

Pennington County, SD FILED IN CIRCUIT COURT

OCT 24 2011

Range Truman, Clerk of Courts

Filed: 10/28/2019 9:14 AM CST Minnehaha County, South Dakota 49CIV19-002940

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ERM A.12(B) Capital Punishment Final Days Procedures

A. GENERAL

- 1. The punishment of death shell be inflicted within the walls of e building at the State Penitentiary. SDCL §23A-27A-32, 23A-27A-33. The South Dakota State Penitentiery (hereinafter SDSP) shell provide all proper equipment and appliances for the infliction of such punishment. SDCL §23A-27A-32, 23A-27A-33. The necessary eetup includes e room, hereinafter referred to es the "Chemical Room," equipped with a one-way mirror that allows occupante to observe the Execution Chamber end the Inmate after he is strepped to a gurney in the execution chamber.
- Death shall be inflicted by administering intravenous injections of a substance or substances in a
 lethal quantity. The substance or substances end menner of execution shall be and remain
 consistent with state and federal constitutional requirements as identified herein.
- The Warden or designee is responsible for heving the chemicals for lethal injection and any other
 necessery items for use on the scheduled dete of execution. Under the direction of the Warden or
 designee two complete sets of the substance or substances used to conduct an execution shall be
 kept in eaparate secure locations.
- 4. The Warden shell errange for the attendence of South Dakota Department of Corrections (hereinafter SDDOC) staff, law enforcement officers and other persone he/she deems necessary and proper to perform the functions involved in conducting e scheduled execution. This shall include all those required by South Dakota etatute to attend.
- 5. If at eny time during the execution procees the Governor stays, pardons, or commutes the sentence of the condemned person or if a court of competent jurisdiction issues a stay after an execution has commenced, the execution teem shell stop the execution. Ambulance staff equipped with advanced life support capebilities, including a heart defibrilletor and such supplies and equipment as would be needed to attempt to revive an individual who has been injected with one or more of the substances identified in Section D, shall be on standby at the SDSP.

B. QUALIFICATIONS OF EXECUTION TEAM MEMBERS

- An execution carried out by intravenous injection shall be performed by person(s) treined to perform venipuncture and to edminister intrevenous injections. The person(s) shall be selected by the Warden end approved by the Secretary of Corrections. SDCL 23A-27A-32.
- The pereon(s) selected by the Warden to mlx the drugs and prepare the syringes shall demonstrate proficiency through relevent treining end two yeers' experience in the preparation of syringes for intravenous administration end mixing and preperation of drugs for such administration.
- 3. The person(e) selected by the Werden to Insert the Intravenous needles into the veins of the prisoner and connect, monitor, and maintein intravenous lines ehall be certified or licensed and have at leest two (2) years' professional experience as one of the following: medical or osteopethic physician, physician assistant, registered nurse, certified medical assistant, licensed practicel nurse, phiebotomist, paramedic, emergency medical technician, or militery corpsman.
- 4. The person(e) selected by the Warden to administer the injections shell demonstrate proficiency through relevant training and two years' experience in the administration of drugs by intravenous injection.

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C. PREPARATION OF CHEMICALS

1. The following identifies the contents of each syringe used in the course of the 3-Drug or 2-Drug

SYRINGE LABELED/MARKED	
	CONTENTS
#1	Sodium Thiopental /1 5
	Sodium Thiopantal (1.5 grams in a 60 cc
	solution) or Pentobarbital (2.5 grams in a 50 cc solution)
#2	Sodium This control of
	Sodium Thiopantal (1.5 grams in a 60 cc
	SUMMON DIOVIDED SYNDOM #1 is also 4 s
	1 914118 Of South Thionantal in a co as
	i Sulution of Pantabathital /2 5 grams in a sa
	To solution provided Symma #1 le alea a g
#3	
	Normal Saline (25 ml)
#4	
· •	Pancuronium Bromida (100 mg of 2 mg/ml
#5	
#9	Normal Sailne (25 ml)
#6	
#0	Potassium Chloride (120 mEq. in a 60 cc
<i>u-</i>	solution)
#7	Potassium Chloride (120 mEq. in a 60 cc
	solution)
Backup syringss (if needed):	
#8	
,,,	Normal Sailne (25 ml)
#9	
	Sodium Thiopental (1.5 grems in a 60 cc
	Solution) of Pentoberbital (2.5 grame in a 50
#10	(CC SOURON)
710	Sodium Thiopental (1.5 grams in a 60 cc
	SOUTHOUT DESVICES SYNTHER #1 is also 1 F
	grams of Sodium Thiopental in a 60 cc
	Solution) of Pentobarbital (2.5 grame in a 50
	CC SOIUTION PROVIDED Syringe #1 is afen 2 5
(4.2	grams of Pentoberbital in a 50 cc solution)
111	Normal Seline (25 ml)
	(== 1,11)
12	Pencuronium Bromide (100 mg of 2 mg/ml
	concentration in a 50 cc solution)
13	Normal Saline (25 ml)
	Scille (20 ill)
14	Potessium Chloride (120 mEq. in a 60 cc
	solution)
15	Potassium Chlorido (100
	Potassium Chloride (120 mEq. in a 60 cc solution)
	Lagurioti

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2. The following identifiee the contents of each syringe used in the course of the 1-Drug execution using

SYRINGE LABELED/MARKED	CONTENTS
#1	COMIENTS
TT 1	Sodium Thiopental (1.25 grams in a 50 cc
#2	solution)
#3	Sodium Thiopental (1.25 grams in a 50 cc solution)
#3	Sodium Thionortol (4.05
#4	Sodium Thiopental (1.25 grams in a 50 cc solution)
· - T	Sodium Thiopental (1.25 grams in a 50 cc
#5	
	Normal Seline (25 ml)
Backup syringes (if needed):	
¥6	
	Sodium Thiopentel (1:25 grams in a 50 cc
7	
<u> </u>	Sodium Thiopental (1.25 grams in a 50 cc
8	
	Sodium Thiopental (1.26 grams in a 50 cc
9	
	Sodium Thiopental (1.25 grams in a 50 cc solution)

3. The following identifies the contents of each syringe used in the course of the 1-Drug execution using

SYRINGE LABELED/MARKED	
CADELEDINARNED	CONTENTS
#1	Double Living
#2	Pentoberbitel (2.5 grams in a 50 cc solution
#3	Pentobarbital (2.5 grams in e 50 cc solution Normel Seline (25 ml)
Backup syringes (if needed):	Notifiel Settile (25 ml)
4	
5	Pentoberbital (2.5 grams in e 50 cc eolution
	Pentobarbitel (2.5 grems in e 50 cc solution

4. Any person sentenced to death prior to July 1, 2007, may choose to be executed by the 3- or 1-Drug protocol set forth in this document, provided the SDDOC possesses the necessary substance or substances for the method chosen at the time scheduled for the inmete's execution, or in the manner provided by South Dakota lew et the time of the person's conviction (2-Drug protocol set forth in this document). Any person sentenced to death prior to July 1, 2007, shell be executed using the 3- or 1-Drug protocol provided in thie document using the substance or substances in the SDDOC's possession unless the inmate requests in writing to the Warden not less then seven (7) days prior to the scheduled execution date that the inmate wishes to be executed by the 2-Drug protocol set forth herein in eccordance with South Dakota lew es it existed prior to July 1, 2007.

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5. For any inmete sentenced to deeth after July 1, 2007, the Warden shall elect the method of execution from one of the foregoing 3-, 2-, or 1-Drug methods for which the SDDOC possesses the necessery substence or substences at the time scheduled for the inmate's execution. The Warden will give consideration to, and make the effort to eccommodeta, the inmate's method of preference, provided tha inmete selects 3-, 2-, or 1-Drug methods for which the SDDOC possesses the necessary substance or substances at the time scheduled for the inmate's execution.

D. PREPARATION FOR EXECUTION

- 1. The SDDOC staff selected to perticipate in the execution shall drill et least weekly for six to eight weeks prior to the scheduled dete of execution. The warden shall schedule additional drills the week of the scheduled execution.
- 2. Not less than seven (7) days prior to the execution week announced in the Warrant of Deeth Sentence and Execution, a physician or other medical professional quelified to essess venous eccess shall examine the inmate. A written report shell be prepared describing the inmate's physical condition and eny medical condition of the inmate that may leed to potential problems establishing an IV site. This report, along with e copy of the lethal injection protocol, shall be provided to the executioner(s) for review and consideration no later then one day before the scheduled date of execution.
- 3. All substances will be mixed or prepared es necessary no more then 8 hours prior to the execution and shell thereafter be maintained in accordance with manufacturers' instructions in temperatures not in excess of 22°C/71.6°F, or such temperature specificelly called for by the manufecturer, until ready for use. All substances will be mixed or prepared in bright, un-dimmed light.
- 4. To provide notification of any last minute stay or appeel, arrangements shall be made to provide direct telephone access between the Werden, the chemical room, the Governor's office, the Chief Justice of the South Dakota Supreme Court or designee, and the Attorney General's office. The Governor, the Chief Justice, and Attorney General or their designees shall be provided with phone numbers to the Warden's office, the chemical room, and multiple backup phone numbers (such as personal cell phone numbers of the Werden and Deputy Warden). In eddition, the Warden and Deputy Warden shell be equipped with SDSP Issued radios.
- On the date of the scheduled sxecution, the prisoner shell be escorted to the execution chamber and strepped to the gurnay by the Tie Down Team.
- On the date of execution, the chemical room shall be kept clear of all persons except for the Executioners, the Warden, and any SDDOC staff selected by the Warden to essist with the execution of the sentence of deeth.
- The Tie Down Team Leader shell verify that ell restraints are secure and so edvise the Warden, at which time the Tie Down Team shell move to the hailway and stand by.
- 8. The IV teem shell enter the chamber and establish two independent IV lines to the inmate's veins. The IV team will establish IV lines only in peripheral veins located in the inmate's erms, hands, legs, or feet, preferably one in each erm. In the event the IV team cennot establish peripheral vein lines, the IV team will establish central vein lines by percutaneous methods, but only if the IV team member establishing the central vein line can demonstrate current training, credentialing, end proficiency in establishing IV lines in central veins by percutaneous methods. This IV teem will establish end secure the IV lines in such e wey es to leeve them visible for monitoring.

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- 9. The gurney shell at all times be pieced so that the inmete's heed and face are visible to the Warden and to those in the chemical room. If the inmete desires, end if it will not interfere with the efficacy of tha substance or substances being used for the execution, the inmete's head will be propped up by a firm, foam wedge-shaped cushion to better permit IV team members in the chemical room to see the
- 10. Every effort will be extended to ensure that no unnecessery pain or suffering is inflicted on the
- 11. If the IV teem cannot secure one (1) or more sites within ona (1) hour, the Governor's Office shell be contacted by the Secretary and a request shall be made that the execution be scheduled for eleter date during the week of the execution, as set forth in the Warrant of Death Sentence and Execution.
- 12. The IV team shell start e saline flow and a sufficient quantity of saline solution shell be injected to confirm that the IV lines have been properly inserted and are not obstructed. IV teem members will continue to monitor IV functioning from within the chemical room.
- E. INJECTION PROCEDURES-3 DRUG PROTOCOL
 - 1. The Warden shall make a final check with those authorities citad in Section D(4) to ensure no last minute appeals or stays have been filed.
 - 2. Upon completion of preparation for execution (D. above), the Werden or designee shall order that blinds in front of witness rooms be opened end that the microphone in front of the inmste's mouth be turned on. The Werden or designee shall ask the prisoner if he/she has any last words to say. Upon completion of the prisoner's last words, or in the discretion of the Werden, the Warden shall order that
 - 3. Upon the Warden's order to proceed, a designated teem member will begin a rapid flow of lethal
 - Syringe #1
 - Syringe #2
 - 6. Syringe #3
 - 7. If it eppears to the Warden that the prisoner is not unconscious within three (3) minutes after administration of the sodium thiopental or pentobarbital, the Warden shell order the flow of chemicals ceased into the primary site. The backup IV shell be used with a new flow of sodium thiopental or
 - 8. The Warden and IV teem shall essess end monitor the inmate's leck of consciousness by using ell steps in a graded consciousness check - e sequence of increasingly strong stimulations to assess consciousness - starting with checking for movement, eyelesh reflex, response to verbel commands and culmineting in a physical stimulation that would be painful if the inmate were ewake. If possible, a currently certified EMT or other medical professional qualified in assessing consciousness, whose identity may, at the Warden's discretion, remain confidential, will be in the execution chamber with the Warden to assist the Warden in determining that the inmete is unconscious following the injection of the sodium thiopental or pentobarbital and prior to the administration of the pancuronium bromide and

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- 9. The Werden end IV teem shell continuously monitor the IV end infusion sites. If the inmete appears unconscious three (3) minutes after the initial or backup flow of sodium thiopental or pentobarbital is complete, the executioner(s) shall commence the rapid flow of the remaining chemicals as follows.
- 10. Syringe #4
- 11. Syringe #5
- 12. Syringe #6
- 13. Syringe #7
- 14. Ten (10) minutes efter the third drug is edministered, the person(s) responsible for pronouncing deeth shell exemine the inmete in order to confirm death by checking the inmate's heartbeet, breething, pulse end pupils. If the inmate'e deeth is confirmed, the person(s) shell inform the Warden, if thet person(s) is unable to confirm the inmate's deeth, the Warden shall order injection of the remaining beckup syringes.
- 15. Once the person(s) responsible for pronouncing deeth hes confirmed the inmete's deeth, the Warden shall announce "At approximetely ______a,m./p.m, the execution of [inmete's name] was carried out in accordance with the lews of the State of South Dakota" or a similar statement to that effect.
- 16. The microphone shall be turnned off end the curtains/biinds shell be drawn.
- 17. The witnesses shell be escorted out of the witness rooms and shall sign the Certificete of Execution as required by South Dekota law.
- F. INJECTION PROCEDURES—2 DRUG PROTOCOL
 - The Warden shall make a final check with those authorities cited in Section D(4) to ensure no last minute eppeals or steys have been filed.
 - 2. Upon completion of preparetion for execution (D. above), the Werden or designee shell order that blinds in front of witness rooms be opened end that the microphone in front of the immete's mouth be turned on. The Warden or designee shell ask the prisoner if he/she has any last words to say. Upon completion of the prisoner's last words, or in the discretion of the Warden, the Warden shall order that the execution proceed.
 - 3. Upon the Warden's order to proceed, a designeted teem member will begin e repid flow of isthal chemicals in the following order.
 - 4. Syringe #1
 - Syringe #2
 - 6. Syringe #3
 - 7. If it eppears to the Werden that the prisoner is not unconscioue within three (3) minutes effer administration of the sodium thiopental or pentoberbital the Werden shall order the flow of chemicals ceased into the primary site. The backup IV shall be used with a new flow of sodium thiopental or pentobarbital.

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- The Warden and IV team shall essess and monitor the inmate's lack of consciousness by using all steps in a graded conscioueness check - a sequence of increasingly strong stimulations to assese consciousnees - sterting with checking for movement, eyelash reflex, reeponse to verbal commands and culminating in a physical stimulation that would be peinful if the inmate were awake. If possible, a currently certified EMT or other medical professional qualified in assessing consciousness, whose identity may, at the Warden's discretion, remain confidential, will be in the execution chamber with the Warden to asslet the Warden in determining that the inmate is unconscious following the injection of the sodium thiopental or pentobarbital and prior to the administration of the pancuronium bromide and
- 9. The Warden and IV team shall continuously monitor the IV and Infusion sites. If the Inmate eppears unconscious three (3) minutes after the initial or backup flow of sodium thiopental or pentobarbital is complete, the executioner(s) shall commence the rapid flow of the remaining chemicals as follows.
- 10. Syringe #4
- 11. Syringe #5
- 12. Ten (10) minutes after the second drug is administered, the person(s) responsible for pronouncing death shall examine the inmate. The person(s) responsible for pronouncing death shall enter the chamber end confirm death by checking the inmate's heartbeat, breathing, pulse and pupils. If that person(s) is not able to pronounce death, the Warden ehall order injection of the remaining backup
- 13. Once the person(s) responsible for pronouncing death has confirmed the inmate's death, the Warden shall announce "At approximately a.m./p.m. the execution of [inmete's name] was car in accordance with the laws of the State of South Dakota" or a similar statement to that effect. a.m./p.m. the execution of [inmete's name] was carried out
- 14. The microphone ehall be turned off and the curtains/blinde shall be drawn.
- 15. The witnesses shall be escorted out of the witness rooms and shall eign the Certificate of Execution
- INJECTION PROCEDURES 1 DRUG PROTOCOL (Sodium Thiopental) G,
 - 1. The Warden shall make a final check with those authorities cited in Section D(4) to ensure no last minute appeals or stays have been filed.
 - 2. Upon completion of preparation for execution (D. above), the Warden or designee shall order that blinds in front of witness rooms be opened and that the microphone in front of the inmate's mouth be turned on. The Warden or designee shell esk the prisoner if he/she has any last words to say. Upon completion of the prieoner's last words, or in the discretion of the Warden, the Warden shall order that
 - 3. Upon the Warden's order to proceed, a designated team member will begin a rapid flow of lethal chemicals in the following order.
 - 4. Syringe #1
 - 5. Syringe #2
 - 6. Syringe #3
 - 7. Syringe #4
 - 8. Synnge #5

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- 9. Ten (10) minutes after the drug le administered, the person(s) responsible for pronouncing death shall examine the inmate. The person(s) responsible for pronouncing death ehall enter the chamber and confirm death by checking the inmete'e heartbeet, breathing, pulse and pupils. If thet person(s) is not able to pronounce death, the Warden shall order a second set of chemicals to be administered in the
- 10. Syringe #8
- 11. Syringe #7
- Syringe #8
- 13. Syringe #9
- 14. Ten (10) minutes after the second round of the drug is administered, the person(e) responsible for pronouncing death shall again examine the inmate. The pereon(s) responsible for pronouncing death shall enter the chember and confirm death by checking the inmate's heartbeet, breathing, pulse and
- 15. Once the person(s) responsible for pronouncing death has confirmed the inmate's death, the Warden shall ennounce "At approximetely _____a,m./p,m, the execution of [inmete's name] was car in accordance with the laws of the Stete of South Dakota" or a similar statement to that effect. __ a.m./p.m. the execution of [inmete's name] was carried out
- 16. The microphone shall be turned off and the curtains/blinde shall be drawn.

The witnesses ehall be escorted out of the witness rooms and shall sign the Certificate of Execution as required by South Dakota law.

- INJECTION PROCEDURES 1 DRUG PROTOCOL (Pentobarbitel) H.
 - 1. The Werden shall make e finel check with those authorities cited in Section D(4) to ensure no last minute appeals or steys heve been filed.
 - 2. Upon completion of preparetion for execution (D. above), the Warden or designee shall order that blinds in front of witness rooms be opened and that the microphone in front of the inmate's mouth be turned on. The Werden or designee ehall ask the prisoner if he/she has any lest words to eay. Upon completion of the prisoner's last words, or in the discretion of the Warden, the Werden shall order that the execution proceed.
 - 3. Upon the Werden's order to proceed, a designeted team member will begin a rapid flow of lethal chemicals in the following order.
 - 4. Syrtnge #1
 - Syringe #2
 - Syringe #3

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- 7. Ten (10) minutes after the drug is administered, the person(s) responsible for pronouncing death shall examine the inmate. The person(e) responsible for pronouncing death shall enter the chamber and confirm death by checking the inmete's heertbeat, breething, pulse end pupils. If that person(s) is not eble to pronounce deeth, the Warden shall order a second set of chemicels to be administered in the following order.
- 8. Syringe #4
- 9. Syringe #5
- 10. Ten (10) minutes after the second round of the drug is edministered, the person(s) responsible for pronouncing deeth shall again examine the inmete. The person(s) reeponsible for pronouncing death shall enter the chember and confirm death by checking the inmate's heartbeat, breething, pulse end pupils.
- 11. Once the person(s) responsible for pronouncing deeth hes confirmed the inmate's death, the Warden shall announce "At approximately a.m./p.m, the execution of [inmate's name] was carried out In eccordence with the lews of the State of South Dekote" or e similer statement to that effect.
- 12. The microphone shell be turned off and the curtelns/blinds shall be drawn,

The witnessee shell be escorted out of the witness rooms and shall sign the Certificete of Execution as required by South Dekota law.

Douglas L. Weber October 13, 2011 Douglas L. Weber, Chief Werden and Director of Prison Date

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South Dakota Departmen Policy

Corrections

Distribution: Public

1.3.D.3 Execution of an Inmate (2).doc

1.3.D.3 Execution of an Inmate

Policy Index:



Date Signed: 10/19/2011 Distribution: Public Reptaces Policy: N/A

Supersedes Policy Deted: 03/22/2017

Affected Units: Adult Institutions

Effective Date: 10/19/2011 Scheduled Revision Date: July 2012

Revision Number: 7

Office of Primary Responsibility: DOC Administration

Il Policy:

The Department of Corrections (DOC) will carry out the execution of an Inmate in accordance with SDCL Chepter § 23A-27A. The execution will be conducted in a professional, humane end dignified manner.

III Definitions:

Lethal Injection:

The intravenous injection (IV) of a substance or substances in a lethal quantity (See SDCL § 23A-27A-32).

Witnesses:

People authorized to attend an execution as referenced in SDCL §§ 23A-27A-34 and 23Á-27A-34.2.

IV Procedures:

1. General Provisions:

- A. Inmate executions are carried out by means of lethal injection. (See SDCL § 23A-27A-32)
 - At no time will any medical professionel(s) employed at a South Dakota Department of Corrections facility participate in the execution process.
 - 2. Lethal Injection is not the practice of medicine in South Dakota (See SDCL § 23A-27A-32).
 - 3. The inmate who is to be executed will be connected to two (2) IV lines, normally one (1) in each arm. One (1) IV line will be the primary line for the lethal injection and the other IV line is designated as a backup.
 - 4. The lethal injection process involves the administration of drugs s, each in e lethal quantity, pursuant to a 3-Drug, 2-Drug, or 1-Drug protocol, depending on the date of the inmate's conviction and the availability of the necessary drugs:
 - a. 3-Drug Protocoi

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South Dakota Departmen	Corrections	
Policy		1.3.D.3
Distribution: Public		Execution of an inmete (2),doc

- The first drug, Sodium Pentothel (aka Sodium Thiopental) or Pentobarbital, is administered in a quantity sufficient to ensure the inmete is not subjected to the unnecessary and wanton infliction of pain.
- The second drug, Pencuronium Bromide, stops the inmate's breathing.
- iii. The third drug, Potassium Chloride, stops the inmate's heart.

b. 2-Drug Protocol

- The first drug, Sodium Pentothel (aka Sodium Thiopental) or Pentobarbital, is administered in a quantity sufficient to ensure the inmate is not subjected to the unnecessary and wanton infliction of pain.
- ii. The second drug, Pancuronium Bromide, stops the inmate's breathing.
- c. 1-Drug Protocol Sodium Pentothai (aka Sodium Thiopentai) or Pentobarbital is edministered in a lethel quentity sufficient to ensure the inmate is executed without the unnecessary and wanton infliction of pain.
- Any person convicted of a capital offense or sentenced to death prior to July 1, 2007 may choose to be executed in the manner provided in this policy or in the manner provided by South Dakota law at the time of the person's conviction or sentence (SDCL § 23A-27A-32.1).
 - a. The inmete will indicate their choice in writing to the Warden not less than seven (7) days prior to the scheduled week of execution.
 - b. If the inmate falls or refuses to choose in the time provided, then the inmate will be executed as provided by state law et the time of the execution (See SDCL § 23A-27A-32.1).
- B. The execution is conducted under the direction of the SDSP Warden.
 - 1. The Warden will select qualified staff to perticipate in the execution.
 - The Warden will identify one (1) or more individuals treined to administer intravenous injections to carry out the lethal injection.
 - a. The Warden will present information regarding the individuel(s) qualifications to the Secretary of Corrections for final approval (See SDCL § 23A-27A-32).
 - b. The individual(s) quelifications must demonstrate adequate training to competently carry out each technical step of the lethal injection (See Baze v. Rees, 553 U.S. 35 (2008) and Taylor v. Crawford, 487 F. 3d 1072 (8th Cir. 2007).
 - c. The name, address, or other identifying information reletting to the identity of any person or entity supplying drugs for use in intravenous injections under SDCL § 23A-27A is confidential and disclosure of such information may not be authorized except pursuant to the terms of a court order.
 - d. The name, address, quelifications and other identifying information relating to the identity of any person administering the intravenous injections under SDCL § 23A-27A is confidentiel and disclosure of such information may not be authorized or ordered. Disclosure of this information is a Class 2 Misdemeanor (See, SDCL § 23A-27A-31.2).

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South Dakota Departmen	fC
Policy	
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f Corrections

1.3.D.3 Execution of an Inmate (2).doc

- C. Male inmates sentenced to death will be housed in the SDSP or the Jameson Prison Annex. Female inmates sentenced to death will be housed at the South Dakota Women's Prison (See DOC policy 1.3.D.2 - Capital Punishment Housing).
 - Inmates sentenced to death are segregated from other inmates and single celled (See SDCL § 23A-27A-31.1).
 - Physical access to an inmate sentenced to deeth is limited to family, attorney(s), clergy, DOC steff, other state or contractual etaff stationed at the respective prison, people authorized by the respective Warden or any other person authorized to access the inmate through a court order (See SDCL § 23A-27A-31.1).
- D. The Governor may investigate the circumstances of the case of the inmate sentenced to death in a manner he deems appropriate and mey require the assistance of the Attorney General (See SDCL § 23A-27A-19). The Governor has the power to reprieve or suspend the execution for up to ninety (90) days to complete his investigation (See SDCL § 23A-27A-20).
- E. If there is a question on en inmate's mentel competence to proceed with the execution, the Warden will notify the Governor, Secretary of Corrections and the sentencing court. If the sentencing court determines that there is a substantiel threshold showing of incompetence to be executed, the sentencing court will conduct hearings and order mental examinations. (See SDCL § 23A-27A-22, through § 23A-27A-26). As long as en inmate is considered incompetent, that inmate may not be executed (See SDCL §§ 23A-27A-24 and 23A-27A-26).
- F. The death penalty cannot be imposed on a person who was mentally retarded at the time of the commission of the offense end whose condition was manifested and documented before the age of eighteen (18) (See SDCL §§ 23A-27A-26.1 through 23A-27A-26.7).
- G. A pregnant women may not be executed (See SDCL §§ 23A-27A-27 through 23A-27A-29).
- H. The death penelty cannot be imposed on a person who committed an act punishable by death while under eighteen (18) years of age (See SDCL § 23A-27A-42).
- Inmate appeals regarding the death penelty ere outside the responsibility of the DOC. Inquiries on the status of any inmate appeal(s) should be directed to the Office of the Attomey General or the defense attorney(s).

2. Warrant of Execution:

- A The sentencing judge (or successor in office) will have a signed and certified Warrant of Death Sentence and Execution provided to the Warden of the state penitentiary (See SDCL §§ 23A-27A-15).
- B. The Warrent of Death Sentence and Execution will set the week within which the inmete is to be executed (See SDCL § 23A-27A-15).
- C. The Warden of the state penitentiary may carry out the execution at any time within the week stated in the Warrant of Deeth Sentence and Execution. (See, SDCL §§ 23A-27A-15 and 23A-27A-16).

3. Time and Place of Execution:

A. All executions will take place at the SDSP (See SDCL § 23A-27A-32).

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- B. The day and hour set by the Warden of the state penitentiary for the execution will be kept secret and only divulged to those invited or requested to be present at the execution (See SDCL § 23A-27A-37).
- C. No person will divulge the day and hour set for the execution prior to the Warden's public announcement (See SDCL § 23A-27A-37).
- D. The Warden of the state penitentlary will publicly ennounce the day and hour of the execution not less than forty-eight (48) hours in advance (See SDCL § 23A-27A-17).

4. Selection of Witnesses:

- A. No person under the age of eighteen (18) will be allowed to witness an execution (See SDCL § 23A-27A-36).
- B. Only persons euthorized by the Warden of the state penitentlary, and witnesses authorized by SDCL §§ 23A-27A-32, 23A-27A-34, 23A-27A-34.1, 23A-27A-34.2 and 23A-27A-36 are allowed to attend the execution.
 - The following witnesses are required to be invited to witness the execution by state law (See SDCL § 23A-27A-34):
 - The Attorney General of South Dakota,
 - b. The trial judge before whom the conviction occurred or his/her successor in office.
 - c. The State's Attorney of the county where the crime was committed.
 - The Sheriff of the county where the crime was committed.
- C. The Warden of the state penitentiary will select a number of reputable adult citizens to witness the execution and two (2) members of the media (See section on Media Reletions).
 - Space and seating for witnesses is limited by the size of the rooms, the viewing windows and concerns for the safety and security of the witnesses.
 - Preference will be given to accommodating as many representatives of the victim as possible given the space constraints and the requirements in state lew that other persons also serve as witnesses.
- D. There are no specific statutory requirements for how the Warden of the state penitentiery selects which representatives of the victim(s) mey witness the execution.
 - 1. The victim's family or families may suggest the names of individuels who should attend.
 - In the event the victim's family or families cannot or will not prioritize their list of individuals, the Warden of the state penitentiary will make the choice in the following manner:
 - a. Close relatives of victim(s) are given preference to witness the execution. A "close relative" is determined in the following order of preference:
 - 1). Spouse.
 - 2). Parent(s) or stepparent(s).
 - 3). Adult children, including stepchildren.
 - 4). Brother(s) or sister(s).
 - 5). Other family members (grandparents, aunts, uncles, nieces, nephews, cousins, etc.).
 - b. Friends of the victim (if there are less than five close relatives of a victim attending).

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- E. The Warden of the state penitentiary has final approval of all witnesses not specifically required by law to be invited.
- F. All witnesses other than the Attorney General, trial judge, States Attorney and Sheriff are subject to the same background check as a regular visitor, unless exempted by the Warden of the state penitentiary.
- G. The inmate is allowed to request the attendance of up to five (5) persons to serve as witnesses. These persons may include but are not limited to legal counsel, members of the clergy, relatives or friends (See SDCL § 23A-27A-34.2). All the requested witnesses shall be on the inmate's visit list and at feast eighteen (18) years of age (See DOC policy 1.5.D.1 Inmate Visiting).

5. Witness Behavior:

- A. Because the execution will take place inside a facility where many other inmates and staff will be present or in close proximity, all witnesses are expected to follow the rules and procedures of SDSP and the orders of escorting staff for the safety and escurity of all involved.
 - Failure to comply with the rules and procedures of SDSP or the orders of escorting staff mey
 result in denial of entry or removal of the witness from the facility.
 - Witnesses are expected to follow the dress code for visitation. The witnesses will be provided this specific information in advance of the execution (See DOC policy 1.5.D.1 Inmata Visiting).
 - Witnesses are subject to search by both a stationary and hand-hald metal datector, and pat searchas at any time (See DOC policy 1.3.A.5 Saarchas - Adult Institutions).
 - a. Witnesses may be searched more than one (1) time prior to the execution.
 - b. To the extent possible, pat searches will be conducted by a staff member of the same sex as the witness.
 - 4. Most personal property items are not allowed Inside the SDSP.
 - a. For exemple, purses, cameras, pictures, pocketknives, pagers, watches, cell phones, signs, recording devices, other electronic equipment, etc. are not permitted. These items should be left in the vehicle or lockers that are available for storage of personal property in the SDSP lobby (See DOC policy 1.3.A.10 Restrictions on Electronic Equipment).
 - No drugs, elcohol, tobacco products or firearms are allowed inside SDSP. Anyone suspected of being under the influence of drugs or alcohol will be denied entry or removed from the facility.
- B. All witnesses are cautioned to refrain from verbal outbursts or inappropriate action while inside the SDSP.
- C. No cameras or recording devices of any typa are allowed inside the SDSP, the witness area or tha area surrounding the execution chamber.

6. Media Relations:

A. Requests for execution information (other than appeal issues) or interviews from media representatives are to be made either to the DOC Communications and Information Manager or to the raspective Warden (Sea DOC policy 1.1.A.4 Relationship with News Media, Public and Other Agencies).

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- The Warden (or designee) can discuss procedures under the control of SDSP that affect an
 execution. Examples of procedures which may be discussed:
 - a. The timelines of the execution, from issuence of the warrant of execution to the certificate of execution, return of the deceased inmate's body and the burial.
 - b. The various steps that go along with the execution; i.e. sequence of events, last meal, last words, etc.
 - c. Witness information (See sections on Selection of Witnesses and Witness Behavior).
 - d. A description of the regular visit procedures inside the security perimeter.
- Questions on the process of the Governor to investigate the circumstances of the case will be directed to the Governor's Office or to the Attorney General's Office.
- B. The decision to grant tours of the execution chamber is et the total discretion of the Werden of the state penitentlary.
- C. The decision to grant photo/video of the execution chamber is subject to the approval of the Secretary of DOC.
- D. The two (2) media witnesses who will attend the execution will be selected as follows:
 - The first media representative will be selected from the Associated Press.
 - The second media representative will be selected from a media outlet located in the proximity of where the crime took place.
- E. No cameras or recording devices of any type are allowed in the witness area or the surrounding area of the execution chamber.
 - Each media witness attending the execution may have writing material in the walting erea but must leave those materials behind when moved to the witness erea.
 - 2. Each medie witness attending the execution will be given paper and a pencil once he/she arrives in the witness area.

7. Final Visit Arrangements:

- A. Reasonable accommodetions for visits by Immediate femily will be made after the inmate has been moved to a holding cell near the execution chamber.
 - Visits are allowed between 8:00 AM and 8:00 PM, except for the day of the execution (See Item "E" in this section).
 - 2. All personal visits will be Class II (non-contact) (See DOC policy 1.5.D.1 Inmate Visiting).
 - Telephone calls may be substituted for personal visits.
- B. Visits will be supervised by DOC staff and must be arranged in advance through the Warden or Deputy Warden.
 - Visitors are subject to search by both a stationary and hand-held metal detector, and pat searches at any time (See DOC policy 1.3.A.5 Searches - Adult Institutions).
 - 2. Visitors must abide by the rules and regulations of the SDSP and the DOC.

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3. Failure to abide by the rules and regulations of the SDSP and the DOC may result in termination of a current visit end denial of future visits.

- C. Visitors will be escorted and supervised at all times.
- D. The following members of the inmete's immediate family are allowed Class II visits with the inmate: father, mother, stepfather, stepmother, brother(s), sister(s), stepbrother(s), stepsister(s), biological children and spouse.
- E. Visits with immediate family will cease et least six (6) hours prior to the scheduled time of execution.
- F. Attorney access will be eccommodated as much es possible.
 - 1. Attorneys ere subject to all the visit errangements/restrictions listed in this section.
 - Any documents that need to be shared with the inmate will be passed to SDSP staff, inspected for contraband and if approved, the documents will be given to the inmate.
 - Attorney(s) must leave the holding cell area at least one (1) hour before the scheduled execution time.
- G. Clergy will be allowed additional visits with the Inmate until one (1) hour before the scheduled execution time.

8. The Execution:

- A. An execution involves strict security procedures that are intended to protect the witnesses, staff, other inmates and the public at large. These security procedures ere confidential and will not be discussed.
- B. The Governor, Attorney General and Chief Justice of the Stete Supreme Court or their designees will be provided with the telephone numbers of the Warden's Office, the chemical roomand multiple backup telephone numbers including personal cell phone numbers of the Warden and Deputy Warden for the purpose of emergency or last minute notification. The Warden and Deputy Warden will also be equipped with SDSP-Issue radios.
- C. After confirming with the Governor's Office, the Attorney General and the Chief Justice of the State Supreme Court that no last minute appeals have been initiated and that no stays heve been ordered, the inmete will be moved to the execution chember and secured to the table.
- D. Two (2) intravenous injection (IV) sites will be prepared and inserted, normally one (1) in each of the Inmete's arms.
- E. A bag of sterile saline solution will be connected to each IV site. Each IV will be checked and verified as running properly before witnesses are escorted into the viewing rooms.
- F. The witnesses will be brought into the respective witness rooms one (1) group at a time.
- G. The curtains outside the witness rooms will remain closed until the Warden is satisfied, everything is ready and orders them opened.
- H. The Warden will give the inmete an opportunity to make a final statement. A transcript will be made of the inmate's statement and the transcript will be mede public.
- For 3-Drug or 2-Drug protocol executions, the Sodium Pentothal or Pentoberbital will be administered and allowed to take effect prior to administering the subsequent drugs.

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- J. After the lethal injections have been edministered, the Werden will welt a brief period before summoning a person_capeble of examining the inmate for the presence of respirations and heartbeat and if eppropriate to pronounce death, including the time of death.
 - 1. If the county coroner is on the premises, the Warden will ask the county coroner to certify death, including the time of death and then teke charge of the body.
 - If the county coroner is not on the premises, the Warden will direct the inmate's body to be taken to e nearby morgue, where the county coroner will be summoned to exemine it and certify death.
- K. After death has been pronounced, the curtains of the witness rooms will be closed and the witness groups will be escorted away from the eree seperately.

Post-Execution Procedures:

- A. The certificate of execution end return will be prepered and signed by the Warden and the certificate of execution will also be signed by all witnesses present end witnessing the execution (See SDCL §§ 23A-27A-34, 23A-27A-34.2 and 23A-27A-40.1).
- B. The Warden will ensure the county coroner is permitted to investigate the death pursuant to SDCL §§ 23-14-18(3) end 24-1-27
 - 1. If the county coroner is on the premises, the body of the executed inmate will not be removed from the execution chember until after the county coroner has certified the death of the inmate.
- C. After the county coroner has completed the investigation, the body of the executed inmate (unless claimed by some reletive), will be interred in a cemetery within Minnehaha County (Also see SDCL § 23A-27A-39 and DOC policy 1.4.E.6 - Management of Offender Deaths).
- D. After the execution has been completed, the DOC Communication and Information Manager will announce the fact in a press briefing that will be conducted elsewhere on the SDSP grounds.
- E. Media representatives present at the execution are required to attend the post-execution press conference to share information about the execution with other media.
- F. Within ten (10) days following the execution, the certificate of execution and return will be filed with the Clerk of Courts of the county where the offense occurred. (See SDCL § 23A-27A-40.1)

V Related Directives:

SDCL chapter 23-14, chapter 23A-27A and 24-1-27

Baze v. Rees, 553 U.S. 35 (2008)

Taylor v. Crawford, 487 F. 3d 1072 (8th Cir. 2007)

DOC policy 1.1.A.4 Relationship with News Media, Public and Other Agencies

DOC policy 1.3.A.5 -- Seerches - Adult Institutions

DOC policy 1.3.A.10 - Restrictions on Electronic Equipment

DOC policy 1.3.D.2 - Capital Punishment Housing

DOC policy 1.5.D.1 -- Inmate Visiting

DOC policy 1.4.E.6 - Management of Offender Deaths

VI Revision Log:

August 2008: New policy.

June 2007: Revised the policy statement. Revised the definition of lethal Injection. Removed medical doctors as witnesses required to be invited to the execution. Deleted references and

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procedures retated to SDCL § 23A-27A-38. Revised the post-execution procedures. Moved some information from the section on Media Relations end placed it in a new section titled The Execution. Added a reference to DOC policy 1.3.A.10. Added language ebout death penelty appeals. Added a statement regarding security measures. Added the circumstances in which an inmate may choose the current lethal injection procedures or revert back to existing law at the time of conviction or

on edministering the lethel dosages. Added a reference to *Taylor v. Crawford*.

<u>August 2007:</u> Changed "medical procedure" to "technical procedure" to avoid eny possibility of confusion regarding an execution being considered the practice of medicine. Updated the procedures involving the county coroner in the section on The Evecution.

sentence. Clarified which individuals the victim's family may request as witnesses. Added a statement on the trained individuals' experience and qualifications. Added more specific procedures

involving the county coroner in the section on The Execution. June 2008: Revised formatting of policy in accordance with 1.1.A.2. Changed policy because of recent lew changes to the capital punishment chapter, SDCL 23A-27A by the SD Legislature, 2008, SB 53 end the United States Supreme Court in Baze v. Rees, 553US 35, (2008). Revised definition of Lethal Injection. Changed "through" to "and" end "36" to "34-2" in definition of Witnesses. Deleted reference to DOH policy in subsection (ss) (A1), revised wording in ss (A2), added "each in a lethal quantity" in ss (A4), deleted comment about remaining unconscious in ss (A4a), replaced "person" with "inmate" In ss (5A and B), added comment about state statue and statute 32-1 in ss (5B), replaced "at least two (2)" to "one (1) or more" in ss (B2), revised section reading property trained to read adequately trained and referenced court cases in ss (B2b), clarified on the information that is to remain confidential for those assisting with administering the intravenous injection in ss (b2c), revised wording of how inmetes are housed and replaced statute 16 with 31.1 in ss (C1), rsptaced statute 18 with 31.1 in ss (C2), added that the Secretary of DOC and sentending court will be notified regarding any question regarding an Inmate's mental competence and replaced stetement regarding e commission may be eppointed with language from statute 22 through 26, and repisced statutes in ss (E) and deleted "/exaction" and "and/" in ss (I), of General Provisions section. Revised statement regarding sentencing judge in ss (A), replaced "delivered" with "provided in ss (A), added "Death Sentence and" to "Execution" regarding the certified Warrant In ss (A, B end C) and added statute 16 In ss (A and C) of Warrant of Execution section. Replaced "the witnesses" with "those" in ss (B), revised ss (C) to state no person will divulge within Time and Place of Execution section. Added statute 36 in ss (A), replaced "DOC staff, law enforcement officers" with "persons", added statute 32, 24-2, 36 and replaced 35 with 34.1 in ss (B), deleted former ss (B2), replaced "no more than ten (10)" with "a number of in ss (C), deleted ss (C1), moved ss (C2) to above ss (C), added new ss (C1 and C2), revised wording regarding selection of witnessss in ss (D, D1, D2 and D2a), deleted formsr ss (D2c) regarding multiple victims, deleted "(Attorney General, trial judge, states attorney and sheriff)" in ss (E) end added ss (G) in Selection of Witnesses section. Ctarified that no cameras or recording devices are allowed inside SDSP or area surrounding the execution chamber in ss (C) of Witness Behavior section. Revised wording in ss (A), deleted statement regarding photo requests of the execution chamber in ss (B) and edded a new ss (C) regarding requests to take photos of the execution chamber, of the Media Relations section. Deleted statement regarding pursuant to SDCL 23A-27A-35 In ss (G) of Final Visit Arrangements section. Revised ss (D) to include two intravenous injection (IV) sites will be prepared end inserted, edded "site" when referencing IV in ss (E), addsd "the transcript" In ss (H), deleted "to render the inmate unconscious" in ss (I), replaced "EMT" with "a person capable of examining" and added "for the presence of respirations and heartbeat end if appropriate" to ss (J), deleted statement about county coroner examining the inmete and added statement about taking charge of the body in ss (J2) and deleted statement regarding EMT and county coroner end edded statement about death being pronounced ss (K) of The Execution section. Replaced "persons" with "witnesses", deleted statute 40, added statutes 34, 34.2, 40.1 in ss (A), added statute 24-1-27 in ss (B), replaced "declared" with "certified" in ss (B1) added statute 40.1 in ss (F) end revised bullets to read accordingly within the Post-Execution Procedures section. Added Beze v. Rees, 553 US 35, (2008), Taylor v. Crewford, 487 F. 3d 1072 (8th Cir., 2007) and DOC policy when referencing policies throughout policy. Revised other grammatical, spacing and senience structure throughout policy.

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<u>July 2009:</u> Added site code to Baze v Rees throughout policy. Added hyperlinks throughout policy. **Deleted SDCL 23A-27A-30** in ss (G of General Provisions).

July 2010: Revised formatting of Section 1. Replaced SDSP with SD DOC in ss (A1 of General Provisions.

September 2011: Reviewed with no changes.

October 2011: Deleted "a" in IV.1.A. Added 3-Drug, 2-Drug, and 1-Drug protocol descriptions in Part IV.1.A.4. Added IV.1.B.1.c. Moved former IV.1.B.2.c. to IV.1.B.2.d. Updated Beze cites to published U.S. citetion throughout. Deleted "Pancuronium Bromide and Potassium Chloride" from IV.8.I and added "For 3-Drug or 2-Drug protocol executions" end "subsequent drugs." Deleted "dosages of Sodium Pentathol, Pancuronium Bromide end Potessium Chloride" from IV.8.J. and added "injections."

Denny Kaemingk 10/19/2011

Denny Kaemingk, Secretary of Corrections Date

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STATE OF SOUTH DAKOTA)	IN CIRCUIT COURT
:SS	
COUNTY OF PENNINGTON)	SEVENTH JUDICIAL CIRCUIT
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CHARLES RUSSELL RHINES,) Civ. 02-924
Petitioner,	j
•) FIRST AMENDED
v. ·) PETITION FOR WRIT
) OF HABBAS CORPUS AND
DOUGLAS WEBER, Warden,) COMPLAINT FOR
South Dakota State) DECLARATORY AND
Penitentiary,) INJUNCTIVE RELIEF
•)
Respondent)
	.)

Charles R. Rhines, for his First Amended Petition for Writ of Habeas Corpus and Complaint for Declaratory and Injunctive Relief states and alleges as follows:

- 1. Petitioner is currently in prison in the South Dakota Department of Corrections at Sioux Falls, SD. Petitioner is under a Judgment of Conviction entered in Circuit Court, Seventh Judicial Circuit, Pennington County, South Dakota. The Judgment of Conviction and Sentence of Death was entered on January 29, 1993. A copy of the Judgment was attached to Rhines' First Application for Writ of Habeas Corpus.
- Charles R. Rhines appealed to the South Dakota Supreme Court, which affirmed his Conviction and Sentence of Death.
- 3. Charles R. Rhines filed a Petition for Writ of Certiorari, but the United States Supreme Court denied further review on December 2, 1996.
 - 4. Charles R. Rhines applied for Writ of Habeas Corpus in State Court on December 5,

EXHIBIT 2

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1996.

- 5. Charles R. Rhines' Habeas Petition was denied by the Trial Court on October 8, 1998.
- 6. A Certificate of Probable Cause was granted, and the matter was appealed to the South Dakota Supreme Court.
- 7. The South Dakota Supreme Court affirmed the denial of the Petition for Writ of Habeas Corpus on February 9, 2000.
- 8. On February 22, 2000, Charles R. Rhines filed a Petition for Writ of Habeas Corpus in Federal District Court, District of South Dakota pursuant to 28 U.S.C. § 2254.
- 9. An Amended Petition for Writ of Habeas Corpus was filed on behalf of Charles R. Rhines on November 20, 2000.
- 10. The Respondent, Douglas Weber, alleged that several of the grounds raised by Charles R. Rhines in his Amended Petition for Writ of Habeas Corpus had not been exhausted and were, therefore, procedurally defaulted.
- 11. On July 3, 2002, the United States District Court, District of South Dakota, Western Division, found that Charles R. Rhines' grounds for relief numbers two (B), six (E), nine (B), (H), (I), and (J), twelve and thirteen were unexhausted.
- 12. The United States District Court for the District of South Dakota, Western Division, stayed the Petition pending exhaustion of Charles R. Rhines' State Court remedies on the condition that Rhines file a Petition for Habeas review in State Court within sixty (60) days and return to Federal Court within sixty (60) days of completing the State proceedings.
 - 13. Respondent, Douglas Weber, appealed to the Eighth Circuit.

- 14. On direct appeal, the Eighth Circuit Court of Appeals vacated the stay and remanded the case to the United States District Court, District of South Dakota, Western Division, so that the District Court could determine whether Charles R. Rhines could proceed by dismissing the unexhausted claims from his Petition.
- 15. Charles R. Rhines filed a Petition for Writ of Certiorari with the United States

 Supreme Court to determine whether a District Court may issue an Order of Stay and Abeyance
 in a mixed petition for a Habeas Corpus Petition.
- 16. The United States Supreme Court held that the stay and abeyance procedure in a mixed petition for Petition for Writ of Habeas Corpus is permissible under certain circumstances. The case was remanded to the Eighth Court of Appeals so that it could determine whether the District Court abused its discretion in granting the stay and abeyance.
- 17. Because the District Court did not have the benefit of the controlling Supreme Court authority when it issued the Order of Stay and Abeyance in 2002, the Eighth Circuit Court of Appeals remanded the case to the District Court to analyze the Petition for Writ of Habeas Corpus under the tests enunciated in the United States Supreme Court case of Rhines v. Weber, 125 S. Ct. 1528, 161 LED 2nd 440, (2002).
- 18. Charles R. Rhines filed his initial Application for Writ of Habeas Corpus in the Circuit Court of South Dakota, Seventh Judicial Circuit, County of Pennington, on August 22, 2002.
- 19. On December 19, 2005, the United States District Court, the District of South Dakota, Western Division, entered its Order that the Petition for Habeas Corpus filed with the District Court was stayed pending exhaustion of various issues in State Court, conditioned upon the petition of returning to the District Court within thirty days of completing said exhaustion.

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20. The officer by whom Charles R. Rhines is so imprisoned and so restrained is Douglas Weber, Warden of the South Dakota State Penitentiary.

GROUND ONE

21. The rights of Charles R. Rhines to due process, an impartial jury, and equal protection of the law were violated by exclusion for cause of the prospective juror Jack Meyer.

GROUND TWO

22. Charles R. Rhines' rights to due process, equal protection and to be free from cruel and unusual punishment were violated on account of the unconstitutionality of the South Dakota Capital Punishment Statutes in that the South Dakota Death Penalty Statutes in SDCL 23 A-27 A-1, mandate that the court "shall consider, or shall include in instructions to the jury" death penalty provisions "in all cases in for which the death penalty may be authorized," which is all Class A felonies under SDCL 22-6-1.

GROUND THREE

23. Charles R. Rhines' Fifth Amendment rights under the United States

Constitution, and his corresponding rights under the South Dakota Constitution, including, but
not limited to Article XI, Sections 7, 9, and 10, to due process of law, and the Sixth Amendment
rights under the United States Constitution, and his corresponding rights under the South Dakota

Constitution, including, but not limited to Article VI, Section 6 and 7, to assistance of counsel
were violated through the ineffective assistance of his trial counsel. The ineffective assistance of
trial counsel prejudiced Charles R. Rhines, and manifested itself in multiple ways including:

a. The tepid presentation of evidence during the penalty phrase by the attorneys for Mr. Rhines, including failure to contact or call available witnesses — including, but

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not limited to John Fouske, James Mighell and Connie Royer – who would have provided helpful testimony for Mr. Rhines in the penalty phrase;

- b. The failure to catch and correct onerous and false, highly prejudicial, testimony of Glen Wishard.
- or expert and and for a region of the consult with, or hire a mitigation consultant or expert and and for a region of the consultant or expert and and for a region of the consultant of t
- d. The failure of trial counsel to register objections to keep out irrelevant prejudicial testimony such as Rhines having access to a gun, a statement by Rhines at the victim's funeral.

GROUND FOUR

24. The due process and equal protection rights of Charles R. Rhines under both the United States Constitution and the South Dakota Constitution were violated by various acts of prosecutorial misconduct. The prosecutor committed prosecutorial misconduct in, among other things, maintaining that the victim's hands were tied prior to the fatal wound, when the evidence was to the effect that they were tied afterwards; in referring to the victim being "gutted" in the assault when there was no such evidence, using and arguing from false and erroneous testimony from witness Glen Wishard; and using the improper tactic of eliminating all jurors with any misgivings about imposition or the death penalty.

GROUND FIVE

25. Charles R. Rhines was deprived his rights to due process of law, equal protection of the laws and the doctrine of separation of powers as provided by the state and federal constitutions in that the judgment and sentence of death resulted from a failure to follow the

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procedure outlined in SDCL Ch. 23A – 27A. These violations are based on the following reasons:

- a. Charles R. Rhines contends that the State's attorney has only the discretion to charge a Class A Felony, but that once such decision is made the punishment for any such offense lies solely within the province of the judicial branch.
 - state in a manner so as to allow a state's attorney to charge under Ch. 23A-27A, but

 also to allow the state's attorney the unfettered discretion, with no guidelines, whether to

 seek the death penalty.
 - c. Other persons who have been charged with Class A felonies have been —allowed to enter into plea bargains in which state's attorneys have made promises of life imprisonment in return for a guilty plea to the Class A felony.

b. SDCL Chapter 23A-27A has been applied unconstitutionally throughout the

- d. Under SDCL Ch 23A-27A, as interpreted, the jury may choose not to impose a death penalty even if aggravating circumstances are found for any reason or without any reason. Because of the discretion given to the jury under South Dakota's statutory scheme, selecting a jury that is "death qualified" skews the composition of the jury pool and eliminates from it those persons who are able to follow the circuit court's instructions but would nonetheless choose not to impose the death penalty.
- e. Because the punishment that may be imposed for a Class A felony lies solely within the province of the judicial branch, the proper pool for proportionality analysis consists of all persons who entered guilty pleas or who were convicted of Class A felonies, regardless of whether the death penalty was imposed.

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GROUND SIX

26. The South Dakota Supreme Court conducted its statutorily mandated proportionality review based only upon those cases in which a death penalty was imposed instead of all cases in which a death penalty might be imposed in violation of the terms of SDCL Ch 23A-27A, and deprived Charles R. Rhines of his rights to due process of law as provided by the state and federal constitutions.

GROUND SEVEN _ muscling 1881 musch a 30002

- 27. The process by which Charles R. Rhines was charged, convicted and sentenced to death deprived him of his right to due process under the federal and state constitutions in that:
 - a. The death penalty under Chapter 23A-27A is a sentencing enhancement in all cases for which the death penalty may be authorized.
 - b. The due process clause of the Fifth Amendment and the notice and jury guarantee of the Sixth Amendment of the United States Constitution and the corresponding sections of the South Dakota Constitution require that any fact that increases the maximum penalty for a crime must be charged in an indictment, or, in the case of state actions, in an indictment or information.
 - c. The federal constitutional rights apply to Charles R. Rhines under the Fourteenth Amendment.
 - d. The aggravating circumstances under which Charles R. Rhines sentence of death was based were not alleged in the indictment or in any information.

GROUND EIGHT

28. The manner of execution as provided by SDCL 23A-27A-32 as in effect at the time of Charles R. Rhines conviction violates his rights to due process law and constitutes cruel and

unusual punishment under the Eighth Amendment of the United States Constitution and the corresponding Article under the South Dakota Constitution:

- a. Executions are constitutional if they involve unnecessary and wanton infliction of pain or torture or lingering death.
- b. Where pain is inflicted in an execution results from something more than the mere extinguishment of life, the United States Constitution Eighth Amendment and the corresponding South Dakota articles prohibition against cruel and unusual punishment are implicated.
- c. Given the two chemicals specified in SDCL 23A-27A-32 in effect at the time of Charles R. Rhines' conviction and the absence of a person trained to administer and monitor anesthesia, it is reasonably foreseeable that Charles R. Rhines may experience suffocation and excruciating pain during his execution in violation of the Eighth Amendment and the corresponding South Dakota Amendment.
- d. An execution pursuant to SDCL 23A-27A-23 as codified on the date of Charles R. Rhines' conviction violates the United States Constitution and the South Dakota Constitution prohibition against cruel and unusual punishment and is therefore unconstitutional.

GROUND NINE

29. That Charles R. Rhines' rights to due process of law and his rights to assistance of counsel under the United States Constitution and the South Dakota Constitution were further violated through the ineffective assistance of his trial counsel in that they failed to allege and argue as part of the direct appeal to the South Dakota Supreme Court the issues raised in grounds I through 8, inclusive, of this Petition, thereby prejudicing the Petitioner.

GROUND TEN

30. Charles R. Rhines' right to due process of law and his right to assistance of counsel guaranteed under the United States Constitution and the South Dakota Constitution were violated through the ineffective assistance of his habeas corpus counsel, in that counsel failed to raise the issues set forth in grounds 1 through 9, inclusive, of this Petition, in the Petition for Writ of Habeas Corpus initially filed, and the subsequent appeal to the South Dakota Supreme Court.

GROUND ELEVEN

- 31. The execution of Charles R. Rhines by lethal injunction as set forth in the present SDCL 23A-27A-32 violates Rhines' rights to due process under law and his rights against cruel and unusual punishment guaranteed under the United States Constitution and the South Dakota Constitution.
 - a. SDCL 23A-27A-32 was amended by the South Dakota Legislature during the
 2007 legislature session.
 - b. On information and belief, the South Dakota Legislature rejected proposed amendments requiring executions be carried out in the most humane manner possible.
 - c. SDCL 23A-27A-32 removes the requirement of a physician participation in the execution process.
 - d. Executions are unconstitutional if they involve unnecessary and wanton infliction of pain or torture or lingering death.
 - e. Where pain is inflicted in an execution results from something more than the mere extinguishment of life, the constitutions of the United States and South Dakota.

 South Dakota Articles prohibition against cruel and unusual punishment are implicated.

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- 32. Upon information and belief, the protocol presently in effect for lethal injection execution uses a three drug cocktail.
- 33. With the three drug cocktail presently believed to be used in executions, in the absence of a person trained to administer and monitor an anesthesia, it is reasonably foreseeable that Charles R. Rhines may experience suffocation and excruciating pain during his execution in violation of the Constitutions of the United States and South Dakota.
- 34. An execution pursuant to the present SDCL 23A-27A-32 violates the United States Constitution and the South Dakota Constitution's prohibition against cruel and unusual punishment and it is therefore unconstitutional.

GROUND TWELVE

- 35. Charles R. Rhines' right to due process of law against cruel and unusual punishment is guaranteed under the United States Constitution and the South Dakota Constitution is violated by the statutory procedure set forth in 23A-27A-32.
 - a. SDCL 23A-27A-32 was passed by the South Dakota legislature during the
 2007 South Dakota legislative session.
 - b. SDCL 23a-27A-32 was amended in two specific areas: it removed the specifications of the two-drug coektail-to-be used in the lethal injunction by the prior statute, and substituted in its place the requirement that the warden should determine the substances and the quantity of substances used for the punishment of death. The statute provided no other detail recording the warden's decision. The second change was that a physician was no longer required to participate in the execution process.

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- 36. Executions are unconstitutional if they involve unnecessary and want an infliction of pain or torture or lingering death.
 - a. Pain inflicted in an execution results from something more than the mere extinguishment of life, the United States Constitution and the South Dakota Constitution is prohibition against cruel and unusual punishment is implicated.
 - b. An information and belief, the South Dakota legislature rejected proposed amendments requiring executions to be carried out in the most humane manner possible.
- 37. Given the fact that the warden is given no guidance as to the type of substances used or the quality of substances used for the punishment of death, and there is no requirement by law that the execution be carried out in a humane manner, and the absence of a person trained to administer and monitor an anesthesia, it is reasonably foreseeable that Charles R. Rhines may experience suffocation and excruciating pain during his execution, as allowed under the present statute.
- 38. An execution pursuant to the present SDCL 23A-27A-32 violates the United States Constitution and the South Dakota Constitution prohibition against cruel and unusual punishment and therefore is unconstitutional.

GROUND THIRTEEN

- 39. The present SDCL 23A-27A-32 constitutes an unconstitutional bill of attainder, and an unconstitutional ex post facto law as applied to Charles R. Rhines.
 - a. SDCL 23A-27A-32, as codified on the date of Charles R. Rhines' convictions is unconstitutional, for reasons previously stated.
 - b. SDCL 23A-27A-14 requires a condemned inmate to be sentenced to life in prison if the death penalty is declared unconstitutional.

c. Because Charles R. Rhines must be sentenced to life in prison as a result to the unconstitutionality of SDCL 23A-27A-32 as codified at the time of his conviction, and as a result of the application of SDCL 23A-27A-14, SDCL 23A-27A-32, as presently codified, constitutes an unconstitutional bill of attainder and an unconstitutional expost fact law, as applied to Charles R. Rhines.

COMPLAINT FOR DECLARATORY AND INJUNCTIVE RELIEF

- 1. Charles R. Rhines is presently incarcerated at the South Dakota Penitentiary.

 Defendant Douglas Weber is a resident of Sioux Falls, South Dakota and is employed by the State of South Dakota as a warden at the South Dakota State Penitentiary.
- 2. This is an action for declaratory and injunctive relief brought pursuant to the laws of the State of South Dakota.
- 3. This action is brought alternatively to Charles R. Rhines' Petition for Writ of Habeas Corpus.
- 4. The mandatory execution protocol provided by SDCL 23A-27A-32 as codified at the time of Charles R. Rhines' conviction required an intravenous injection by lethal quantity of an ultra short acting barbiturate in combination with a chemical paralytic agent and continuing the application thereof until convict was pronounced dead by a licensed physician according to the standards of medical practice.
- 5. SDCL 23A-27A-32 was amended by the South Dakota legislature during the 2007 South Dakota legislative session.
- 6. Given the two chemical specified in SDCL-23A-27A-32 in effect at the time Charles R. Rhines' conviction and the absence of a physician trained to administer and monitor an anesthesia, it is reasonable foreseeable that Charles R. Rhines may experience suffocation and

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excruciating pain during his execution in violation of the constitutions of the United States and the State of South Dakota.

- 7. An execution pursuant to SDCL 23A-27A-32 as codified on the date of Charles R. Rhines' conviction violates the constitutions of the State of South Dakota and the United States prohibition against cruel and unusual punishment and is therefore unconstitutional.
- 8. SDCL 23A-27A-14 requires a condemned inmate be sentenced to life in prison if the death penalty is declared unconstitutional.
- 9. Because Charles R. Rhines must be sentenced to life in prison as a result of the application of SDCL 23A-27A-14, the present SDCL 23A-27A-32 constitutes an unconstitutional bill of attainder as applied to Charles R. Rhines.
- 10. Because Charles R. Rhines must be sentenced to life in prison as a result of the application of SDCL 23A-27A-14, the present SDCL 23A-27A-32 constitutes unconstitutional ex post facto laws as applied to Charles R. Rhines.

WHEREFORE, Petitioner Charles R. Rhines prays for the following relief:

- That this court allow discovery and hold an evidentiary hearing on Petitioner's First
 Amended Petition for Writ of Habeas Corpus and Complaint for Declaratory Injective Relief;
- 2. An Order granting Petitioner relief on his First Amended Petition for Writ Habeas Corpus on any and all grounds 1 through 12 inclusive;
- 3. A declaration that a execution carried out by means of the two drug cocktail provided in SDCL 23A-27A-32 in effect at the time of Charles R. Rhines' conviction constitutes cruel and unusual punishment in violation of the constitutions of the State of South Dakota and the United States as well as depriving Rhines of his right to due process of law, and is therefore unconstitutional;

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- 4. a declaration that because SDCL 23A-27A in effect at the time of Rhines' conviction is unconstitutional, that Charles R. Rhines must be sentenced to life in prison;
- 5. A declaration that SDCL 23A-27A-32, as presently codified, and as applied to Charles R. Rhines, constitutes an unconstitutional bill of attainder and an unconstitutional ex post facto law and deprives Rhines of his right to due process of the law;
- 6. An injunction requiring the State of South Dakota to sentence Charles R. Rhines to life in prison pursuant to SDCL 23A-27A-14; and
 - For such other and further relief as to the court seems just and appropriate.
 Dated this 19th day of February, 2008.

Stuart, Gerry & Schlimgen, Prof. LLC:

By:

Tong A. Schlingen 307 W. 10 Street PO Box 966

Sioux Falls, SD 57101-0966

Telephone: (605)336-6400

Fax: (605)336-6842 schlimgen@sgsllc.com

> Pennington County, SD FILED IN CIRCUIT COURT

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DR. MARK DERSHWITZ-12/3/12

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Page 2	Page 4 1 PROCEEDINGS
APPEARANCES	_
ON SEHALF OF THE PETITIONER	THE VIDEOGRAPHER: We are now recording
NEIL FULTON, ESQ. Office of the Federal Public Defender	3 THE VIDEOGRAPHER: We are now recording
therets of South Dakota and North Dakota	4 and on the record. My name is Steven Garda. I am
101 South Plarre Street, 3rd Floor	s a legal video specialist for National Video
5 P.O. 8ex 1258	6 Reporters, Inc. Our business address is 7 Cedar
Plerre, SO 57501	ter a be analyzed A1001
605) 224-0009 ON BEHALF OF THE RESPONDENT:	7 Orive, Woburn, Massachuseus, Utour.
PAUL S. SWEDLUND, ESQ.	8 Today is December 3, 2012, and the time
State of South Dakota	9 is 12:29 p.m. This is the deposition of Dr. Mark
office of Attorney General	10 Dershwitz in the matter of Charles Russell Rhines,
1302 E. Highway 14, Suite 1	1 t plaintiff, versus Douglas Weber, defendant, in the
O Pleme, SO 57501-8501	12 Circuit Court, Seventh Judicial Court, State of
(605) 773-3215 1	Civil Action
THE VIO EOGRAPHER:	13 South Dakota, County of Pennington, Clark Actuate
2	14 Number 02-924.
STEVEN GARCIA	15 This deposition is being taken at 51
National Video Reporters, Inc. 7 Ceder Drive	16 Sleeper Street, Boston, Massachusetts on behalf of
4 Woburn, MA 01801	17 the plaintiff. The court reporter is Kristin M.
(781) 937-9900	18 Stedman of Kaczynski Court Reporting.
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0	22 of the respondent.
1	23 MR. FULTON: Nell Fulton on behalf of
2 3	24 the petitioner.
4 Page 3	Page :
	1
Dana 5.34	2 DR. MARK DERSHWITZ,
2 EXAMINATION BY MR. 5WEDLUND	3 having first been satisfactorily identified and
EXAMINATION BY MR. FULTONPage 22	4 duly swarn by the Notary Public,
3 .	the state of the Section of
4	
\$	6
6	7 EXAMINATION BY MR. SWEDLUND:
7	B Q. Could you state your name, please, for the
8	9 record.
9	10 A. Mark Dershwitt.
EXHISITS	the state of the s
11 No. Description Page No.	l
None marked	
******	13 you understand that?
2	14 A. Yes.
13	15 Q. And do you understand that all the enswers
14	13 you understand that? 14 A. Yes. 15 Q. And do you understand that all the enswers 16 that you give must be given to a reasonable degree.
is	17 of professional certainty for your profession?
• #:	
- -	
17	18 A. Yes.
17 18	10 O. Could you describe your qualifications for
17 18	19 Q. Could you describe your qualifications for 20 the court, your background and training that ellow
17 18 19	19 Q. Could you describe your qualifications for 20 the court, your background and training that ellow you to testify as an expert here in this case today
17 18 19 20 ·	19 Q. Could you describe your qualifications for 20 the court, your background and training that ellow you to testify as an expert here in this case today
16 17 18 19 20 ·	Q. Could you describe your qualifications for the court, your background and training that ellow you to testify as an export here in this case today A. Well, in college I have a bachelor's degree
17 18 19 20 21	19 Q. Could you describe your qualifications for 20 the court, your background and training that ellow you to testify as an expert here in this case today

2 (Pages 2 to 5)

KACZYNSKI REPORTING

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24 consciousnessi.

dynamics and kinetics?

A. Correct.

DR. MARK DERSHWITZ-12/3/12

Prince 1	بدبب والمناب والمنافذة
	Page
1	In pharmacology from Northwestern. I then did a
2	residency in anesthosiology at Massachusetts General
3	Hospital in Buston, followed by a research
4	fallowship, and I have worked in academic
5	anasthasiology since 1986, from 1986 through 2000 at
6	Massachusetts General Hospital In Boston and Hervard
7	Medical School, and since 2000, at the University of
8	Massachusetts Medical School in Worcester.
9	Q. You mentioned the field of pharmacology,
10	can you describe for the court what is that field?
11	A. Pharmacology is a basic medical science
12	that, broadly speaking, studies the effects of
13	chemicals on biological systems, and more
14	specifically, the affects of drugs on human beings.
15,	Q. And there are a couple of terms there,
16	pharmacodynamics and pharmacokinetics, can you also
17	describe those for the court?
18	A. Pharmscodynamics is the study of the
19	mechanism of ection of how drugs actually work,
20	whereas pharmacokinetics is the time course of
21	medications, how long does the drug actions last and
22	how long does the drug last in the body.
23	Q. So dynamics would be the effect of the drug
24	on a person and the kinetics would be the duration

Page 8 Q. And what was the nature of your testimony 2 in that case? A. The charges against him were that he tried to blow up a plane, and when the passengers realized what he was trying to do, they restrained him physically, and then some physicians on the plane opened up the medical kit on the plane and they gave him some sedating medications, including diszepam, which is more commonly known as Vallum, and when the plane was diverted here to Boston, shortly after his arrest, he was interrogated and he confessed, and the question was whether or not somebody is capable 12 of understanding their Miranda rights when they 13 confess after being given a medication like 14 diazepam, which produces what is celled enterograde amnesta, which means amnesta for things that happen after the medication is given, and it was my belief 17 that it was improper to accept a confession from 18 somabody who had been medicated against his will 19 20 with a medication that prohibited him from 21 understanding his Miranda rights. Q. So the Reld case involved both questions of

Page 7 of the druge? A. Yes. 2 Q. Doctor, can you describe for the court your background as an expert witness in terms of the testimony that you have provided in cases either for the government or against the government? A. Well, with regard to the casas involving lettral injection, I have been an expert on behalf of the, either the attorney general's office or the department of corrections in about a dozen and e 10 half states. 11 12 Q. And while I am thinking about it, were you also an expert in the Baze case? 13 14 Q. And for whom did you testify in Baze? 15 A. On behelf of the Commonwealth of Kentucky. 16 Q. Have you also at times outside of the 17 context of lethal-injection protocols, testified on 18

behalf of defendants in criminal cases?

21 testified on behalf of defendants. The one that

commonly known as the Shoe Bomber.

comes to mind is I was an expert on behalf of

defendant Richard Raid, who was perhaps more

A. There's been a couple of cases where I'

19

20

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Q. Doctor, you have previously submitted affidavits in this case, one dated 18 September, 2012, and another dated 9 February, 2012, and I will show those to you briefly. MR. FULTON: February and September? MR. SWEDLUND: February and September, correct. Q. Doctor, do those affidavits contain opinions that you have held about the protocol at Issue in this case? A. Yes. O. And ere those opinions still current? A. Yes. Q. If you would plaase, doctor, could you explain the effects of 5 grams of pantobarbital administered as set forth in South Dakota's lethal Injection protocol, what dynamic effect and what kinetic effect would that drug have? A. First of all, from a kinetic point of view, 20 when pentobarbital is injected intravenously, it has 21 an onset of effect that is almost immediate. Within 22 thirty to forty-five seconds after the drug reaches 23 the brain, the person would be expected to lose

3 (Pages 6 to 9)

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r	Page 10		Page 12
i	In addition, there are profound effects	1	two inmates at issue in those affidavits?
2	caused by pentobarbital on the circulatory system,	2	A, Well, to summerize what Warden Weber said
3	and it's going to causa dilation of the blood	3	was shortly after the drug was administered, the
4	vessels, which means relexation of the blood vessels	4	inmates took a last breath, typically a deep breath,
5	that is going to cause a reduction in blood	5	and then were immobile.
6	pressure, and there's going to be effect on the	6	Q. Did the immates store?
7	heart to decrease the strangth of the heart's	7	A. I think he said that there was one that
8	ability to beat, so with a dose as large as 5000	8	took a, the last breath was like a snoring-type
9	milligrams or 5 grams, within a short period of time	9	breath. Let me just - In the case of Robert, his
10	not only is the person as deeply unconscious as cen	10	last breath he described as expelling a shore.
	ba measured with the instruments that we have, that	11	Q. Would a snore be consistent with the onset
	person's blood pressure is going to ba	12	of unconaciousness?
13	extreordinently low, possibly unmeesurable, and	13	A. It probably came afterward.
	thare will be extremely little, if any, circulation	14	Q. And then, doctor, could you describe for
15	throughout the body.	15	the court, in your practice, heve you seen instances
16	Q. And in this unconscious state, can an	16	where patients have their eyes open still after they
17	înmate fesî paîn?	17	have been administered anesthesia?
18	A. No.	18	A. Yes, sometimes eyes remain open, even in a
19	Q. Why not?	19	person who is deeply anesthestized, there may be
20	A. In the level of anesthesia that 5000	20	mechanical reasons why the eyelids don't cover the
21	milligrams of pentobarbital produces, this is	21	eyes when the person loses consciousness, end as an
22	actually a state much deeper than the state of	22	enesthesiologist, since one of my responsibilities
23	surgical anesthesia that we anesthesiologists	23	Is to protect the eyes, I often tape or cover them
24	produce during anesthesia for surgical procedures,	24	during surgary in order to protect them.
	Page 11		Page 13
	O. So as the inmate goes into respiratory	1	Q. What mechanical issues ore you talking
1 ,	Q. So as the inmate goes into respiratory arrest, suffocates, the inmate is not feeling any	1 2	about might account for a patient not closing their
2 2	arrest, suffocates, tha inmate is not feeling any		ebbut might account for a patient not closing their eyes even though they are under anestheela?
2 a 3 p	arrest, suffocates, tha inmate is not feeling any pain?	2	ebout might account for a patient not closing their eyes even though they are under anestheels? A. So when e person is lying on their back,
2 a 3 p 4	errest, suffocates, the inmate is not feeling any pain? A. Yeah, that is correct. So the	2	ebout might account for a patient not closing their eyes even though they are under anestheela? A. So when a person is lying on their back, gravity does not pull the eyelld down, and the
2 a 3 p 4	arrest, suffocates, tha Inmate is not feeling any pain? A. Yeah, that is correct. So the pantoberbital will have this profound affect to	2 3 4	ebbut might account for a patient not closing their eyes even though they are under anestheela? A. So when e person is lying on their back, gravity does not pull the eyelld down, and the residual muscle tone in both the muscles that raise
2 a 3 F 4 5 F 6	errest, suffocates, the immate is not feeling any pain? A. Yeah, that is correct. So the percential will have this profound affect to decrease circulation, its will stop breathing	2 3 4 5	ebout might account for a patient not closing their eyes even though they are under anestheela? A. So when a person is lying on their back, gravity does not pull the eyelld down, and the residual muscle tone in both the muscles that raise the eyelld and lower the eyelld may be balanced in
2 a 3 p 4 5 p 6 d 7 t	priest, suffocates, the immate is not feeling any pein? A. Yeah, that is correct. So the perioderbital will have this profound effect to recrease circulation, its will stop breathing typically within aminute or two of its	2 3 4 5 5	ebbut might account for a patient not closing their eyes even though they are under anestheeia? A. So when a person is lying on their back, gravity does not pull the eyelid down, and the residual muscle tone in both the muscles that raise the eyelid and lower the eyelid may be balanced in such a way that the eyeliddoes not cover the eye.
2 a 3 F 4 5 F 6 6 7 t 8 a 2	priest, suffocates, the immate is not feeling any pain? A. Yeah, that is correct. So the pentoberhital will have this profound affect to decrease circulation, its will stop breathing typically within a minute or two of its administration, and the person will die due to the	2 3 4 5 5	ebbut might account for a patient not closing their eyes even though they are under anestheela? A. So when e person is lying on their back, gravity does not pull the eyelid down, and the residual muscle tone in both the muscles that raise the eyelid end lower the eyelid may be balanced in such a way that the eyeliddoes not cover the eye. Q. If a patient, or in this case a condemned
2 a 4 5 p 6 d 7 t 8 a 9 e	parrest, suffocates, the immate is not feeling any pain? A. Yeah, that is correct. So the pentoberhital will have this profound affect to decrease circulation, it will stop breathing yelcally within a minute or two of its administration, and the person will die due to the affects of decreased oxygen delivery to critical	2 3 4 5 5 7 8	ebbut might account for a patient not closing their eyes even though they are under anestheela? A. So when e person is lying on their back, gravity does not pull the eyelid down, and the residual muscle tone in both the muscles that raise the cyclid and lower the eyelid may be balanced in such a way that the eyeliddees not cover the eye. Q. If a patient, or in this case a condemned inmate's eyes are open, is that any indication that
2 a 3 F 4 5 F 6 d 7 t 8 a 9 6 6 l 0 0	parrest, suffocates, the immate is not feeling any pain? A. Yeah, that is correct. So the partoperbills will have this profound affect to decrease circulation, its will stop breathing system around the person will die due to the affects of decreased oxygen delivery to critical organs in the body, the heart and the brain, and	2 3 4 5 5 7 8 9	ebbut might account for a patient not closing their eyes even though they are under anestheela? A. So when e person is lying on their back, gravity does not pull the eyelid down, and the residual muscle tone in both the muscles that raise the cyclid and lower the eyelid may be balanced in such a way that the eyeliddoes not cover the eye. Q. If a patient, or in this case a condemned inmate's eyes are open, is that any indication that the patient is conscious and feeling pain?
2 a 4 5 6 6 7 t 8 9 6 6 11 t 1	parrest, suffocates, the immate is not feeling any pain? A. Yeah, that is correct. So the partoperbills will have this profound affect to decrease circulation, its will stop breathing system around the person will die due to the affects of decreased oxygen delivery to critical organs in the body, the heart and the brain, and there is a decreased delivery of oxygen, both	2 3 4 5 5 7 8 9	ebbut might account for a patient not closing their eyes even though they are under anestheela? A. So when e person is lying on their back, gravity does not pull the eyelid down, and the residual muscle tone in both the muscles that raise the cyclid and lower the eyelid may be balanced in such a way that the eyeliddoes not cover the eye. Q. If a patient, or in this case a condemned inmate's eyes are open, is that any indication that the patient is coneclous and feeling pain? A. Not at ell.
2 2 3 4 4 5 6 6 6 7 8 2 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	pairst, suffocates, the immate is not feeling any pair? A. Yeah, that is correct. So the periodic and the profound effect to decrease circulation, its will stop breathing cycleally within a minute or two of its administration, and the person will die due to the affects of decreased oxygen delivery to critical organs in the body, the heart and the brain, and there is a decreased delivery of oxygen, both pecause the person is not breathing and exchanging	2 3 4 5 5 7 8 9 10	ebbut might account for a patient not closing their eyes even though they are under anestheela? A. So when e person is lying on their back, gravity does not pull the eyelid down, and the residual muscle tone in both the muscles that raise the cyclid and lower the eyelid may be balanced in such a way that the eyeliddees not cover the eye. Q. If a patient, or in this case a condemned inmate's eyes are open, is that any indication that the patient is conscious and feeling pain? A. Not at ell. Q. If an anesthatized patient, or in this case
2 a 4 5 p 6 d 7 t 8 a 2 p 6 d 11 t 12 b 13 c 13	pain? A. Yeah, that is correct. So the pentoberhital will have this profound affect to decrease circulation, its will estop breathing explically within a minute or two of its administration, and the person will die due to the affects of decreased oxygen delivery to critical organs in the body, the heart and the brain, and there is a decreased delivery of oxygen, both pecause the person is not breathing and exchanging oxygen, as well as the fact that the circulation is	2 3 4 5 5 7 8 9 10 11 12	ebbut might account for a patient not closing their eyes even though they are under anestheela? A. So when a person is lying on their back, gravity does not pull the cyclid down, and the residual muscle tone in both the muscles that raise the cyclid and lower the cyclid may be balanced in such a way that the cycliddoes not cover the eye. Q. If a patient, or in this case a condemned inmate's eyes are open, is that any indication that the patient is conscious and feeling pain? A. Not at ell. Q. If an enesthatized patient, or in this case en inmate, a condemned inmate has, takes final deep
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2 2 3 4 5 5 6 6 6 7 5 8 9 9 9 10 11 12 15 15 16 17 18 8 8 19 19 19 19 19 19 19 19 19 19 19 19 19	pairst, suffocates, the immate is not feeling any pair? A. Yeah, that is correct. So the periodic and that is correct. So the periodic and in the periodic and affect to decrease circulation, it will stop breathing cycleally within a minute or two of its administration, and the person will die due to the affects of decreased oxygen delivery to critical organs in the body, the heart and the brain, and there is a decreased delivery of oxygen, both person is not breathing and exchanging oxygen, as well as the fact that the circulation is depressed. Q. Doctor, I have previously provided you with affidevits from the respondent in this case, Doug Weber, one dated the 22nd of October, 2012, the second dated 1st of November, 2012. I will show these to you, do you recognize those affidavits?	2 3 4 5 5 7 8 9 10 11 12 13 14 15 16 17 18	ebbut might account for a patient not closing their eyes even though they are under anestheela? A. So when e person is lying on their back, gravity does not pull the eyelid down, and the residual muscle tone in both the muscles that raise the cyclid and lower the eyelid may be balanced in such a way that the eyelid does not cover the eye. Q. If a patient, or in this case a condemned inmate's eyes are open, is that any indication that the patient is conclous and feeling pain? A. Not at ell. Q. If an enesthatized patient, or in this case en inmate, a condemned inmate has, takes final deep breathe, or if one were to characterize those as gaspe, would those be an indication that the inmate is experiencing pain? A. No. Q. Why not? A. When somebody has drug-induced respiratory
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2 2 3 4 4 5 6 6 6 7 5 8 2 9 6 6 7 5 111 111 111 111 111 111 111 111 111	pairst, suffocates, the inmate is not feeling any pair? A. Yeah, that is correct. So the periodic and will have this profound effect to decrease circulation, its will-stop breathing yeleally within a minute or two of its administration, and the person will die due to the effects of decreased oxygen delivery to critical organs in the body, the heart and the brain, and there is a decreased delivery of oxygen, both pecause the person is not breathing and exchanging oxygen, as well as the fact that the circulation is depressed. Q. Doctor, I have previously provided you with affidevits from the respondent in this case, Doug Weber, one dated the 22nd of October, 2012, the second dated 1st of November, 2012. I will show these to you, do you recognize those affidavits? A. Yes.	2 3 4 5 5 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	ebbut might account for a patient not closing their eyes even though they are under anestheela? A. So when a person is lying on their back, gravity does not pull the eyelid down, and the residual muscle tone in both the muscles that raise the cyclid and lower the eyelid may be balanced in such a way that the eyelid does not cover the eye. Q. If a patient, or in this case a condemned inmate's eyes are open, is that any indication that the patient is conscious and feeling pain? A. Not at ell. Q. If an anesthatized patient, or in this case en inmate, a condemned inmate has, takes final deep breathe, or if one were to characteriza those as gaspa, would those be an indication that the inmate is experiencing pain? A. No. Q. Why not? A. When somebody has drag-induced respiratory errest, it is actually common that the last breath

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KACZYNSKI REPORTING

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1 you are using on a patient in pure, effective and startle? 3 A Yes. 4 Q. And again, your standard of care in your profession dass not require you to go back behind the licensure and make sure that that licensing was a drug? 5 A. Weil, I believe the pharmodes are not licensed by PRA, they're licensed by the state, but lives you have the pharmodes are not licensed by PRA, they're licensed by the state, but lives you have a line of the compounding pharmodist. 13 Q. That would be for the compounding pharmodist in the state phermacy board to properly license that pharmodist from whom you acquire your drugs? 14 A. Yes. 15 A. Yes. 16 Q. You rely on the state phermacy board to properly license that pharmodist from whom you acquire your drugs? 16 A. Yes. 17 A. Yes. 18 Q. And you rely on the FDA to properly license the fung manufacturer, suppliers from whom you recolve your drugs? 19 A. Yes. 20 Q. And will provide you a copy. At least, I think will. Where is my copy? 21 Paylew South Dakota's fethal infection protocol? 22 A. Yes. 23 A. Yes. 24 Q. Doctor, Reve you had an opportunity to 25 A. Yes. 26 Q. And will provide you a copy. At least, I think will. Where is my copy? 27 MR. FULTOR: I think the more marked if you want to use it, Paul. 28 A. Yes. 29 Q. Doctor, Reve you had an opportunity to 29 A. Yes. 29 Q. Doctor, Reve you had an opportunity to 20 Poycu have an option regerding whether group has a continued as written would provide a palmies and humane death for a condamned inmets in South Dakota's — A. Yes. Q. Do you have an option regerding whether ERFMA.12.B I performed as written would provide a palmies and humane death for a condamned inmets in provides you the assurance that the himset to whom the protocol is administored would sexperience a palmies and humane death for a condamned inmets in provides you the assurance that the himset to whom the protocol is administored would sexperience a palmies and humane death for a condamned inmets in provides you the assurance that the himset to whom the protocol is admin	1 you are using on a patient is pure, effective and statelle? 2 sterile? 3 A Yes. 4 Q. And again, your standard of care in your profession does not require you to go back behind it he licensure and make sure that that licensing was a drug? 4 A Well, I believe the pharmacies are not licensed by FDA, they're licensed by the state, but yes, I rely on the local authorities to make sure that the supply chain is indeed safe. 4 Q. That would be for the compounding pharmacist? 5 A. Yes. 6 You raly on the state phermacy board to properly license the drug ranamacturer, suppliers from whom you receive your drugs? 6 A. Yes. 7 Q. Do door, have you hind an opportunity to leave your drugs? 8 A. Yes. 9 Do door, have you hind an opportunity to leave your want to us at, Paul. 9 A. Yes. 9 Do you have an opinion regerding whether you. It's supposed to be right here. 9 Do you have the protocol ERMA.12.8 before you? 9 A. Yes. 9 Do you have an opinion regerding whether you? 10 A. Yes. 9 Do you have an opinion regerding whether you. 11 A. I blink in general when one considers the broad population of EMBs, many of them are trained to longer introvenous calculars. I have no specific should be a running the protocol extra the limited whom her the protocol extra the introvenous calculars. I have no specific should be a running the protocol extra the protocol extra the limited whether in the state is it about the protocol that rovides you the assumance that the inmete to whom he protocol extra the introvenous calculars. I have no specific should be a running the protocol extra the introvenous calculation given that he could be repeated in the extending another head of the percention of the section of the anesthesiologist, to could be the extending another head of the percention of the section of the anesthesiologist, to could be the extending another head of the percention of the section of the anesthesiologist, to could be the extending another head of the percention and the percention is administered with a percention of the same are seg	Page	181	Prop. 7				
2 A. Yes. 4 Q. And again, your standard of care in your 5 profession does not require you to go back behind the licensure and make sure that that filenening was validly given by the FDA before you would use a 8 drug? 7 validly given by the FDA before you would use a 8 drug? 8 A. Weil, I believe the pharmacles are not 10 licensad by FDA, they're licensed by the state, but 11 yes, I rely on the focal authorities to make sure 12 that the supply chain is indicated size. 13 Q. That would be for the compounding 14 phermacles? 14 A. Yes. 15 Q. You rely on the state phermacy board to 16 properly license that pharmacles from whom you acquire your drugs? 16 A. Yes. 17 Q. And you rely on the FDA to properly license the drug manufacturer, suppliers from whom you receive your drugs? 18 A. Yes. 19 A. Yes. 19 Q. Doctor, have you had an opportunity to 19 review South Dakota's fethal injection protocol? 10 I review South Dakota's fethal injection protocol? 11 A. Yes. 12 Q. Doctor, have you had an opportunity to 19 review South Dakota's fethal injection protocol? 12 A. Yes. 13 Q. And you rely on the FDA to properly license 11 the drug manufacturer, suppliers from whom you 12 receive your drugs? 14 A. Yes. 15 Q. And you rely on the FDA to properly license 12 the drug manufacturer, suppliers from whom you 12 receive your drugs? 16 A. Yes. 17 A. Yes. 18 Q. Doctor, have you had an opportunity to 19 review South Dakota's fethal injection protocol? 18 A. Yes. 19 Q. Doctor, have you had an opportunity to 19 review South Dakota's fethal injection protocol? 19 A. Yes. 20 Q. And you reviewed that and you recognize it? 21 A. Yes. 22 Q. And you have an ophulon regerding whether 15 your 19 you have an ophulon regerding whether 16 you want to use it, Paul. 23 A. Yes. 24 Q. Doy ou have an ophulon regerding whether 17 you have the protocol ERMA-12.B before you want to use it, Paul. 25 A. Yes. 26 Q. And you reviswed that and you recognize it? 26 A. Yes. 27 A. Roud be one of this or three pspudstons of the presence of the presence of the presence	2 Startile? 3 A. Yes. 4 Q. And again, your standard of care in your procession dase not require you to go back behind the licensure and meke sure that the licensing was a validly given by the FDA before you would use a drug? 4 A. Well, I believe the pharmecles are not licensed by FDA, they're licensed by the state, but yes, I ray on the local sutherities to make sure that the supply chain is indeed safe. 4 A. Yes. 5 Q. You raly on the state phermacy board to properly license the drug manufacturer, suppliers from whom you acquire your drugs? 5 A. Yes. 6 Q. And you rely on the FDA to properly license the drug manufacturer, suppliers from whom you receive your drugs? 6 A. Yes. 7 Q. Doctor, have you had an opportunity to Page 10 review South Dakota's fethal infection protocol? 8 A. Yes. 9 Q. And I will provide you a copy. At least, I think I will. Where Is my copy? 9 MR. FULTON: I have before you receive your advised that and you recognize lit? 9 A. Yes. 9 Q. Do you have the protocol ERMALIZE before you? 11 A. I think in general when one considers the broad population of ENTs, many of them are trained to insurt intravenous catheters. I have no specific knowledge of the person who may do it based upon this protocol. 11 A. I think in general when one considers the broad population of ENTs, many of them are trained to insurt intravenous catheters. I have no specific knowledge of the person who may do it based upon this protocol is a difficult at a protocol in an anytherist and the insurance of the protocol in an anytherist and the insurance of the protocol in an anytherist and the form of the meschedologist, or it could be the extending annealises and humane death? for a condamned inmets in footh Dekota? A. Yes. Q. Do you have an opinion regerding whether RRMALIAB if performed as written would provide a salalies and humane death? A. Yes. Q. Do you have an opinion regerding whether RRMALIAB if performed as written would provide a analies and humane death? A. I would. Q. And what is it about the protocol that the	I you are using on a patient is pure, effective and	1.5					
3 A. Yes. 4 Q. And again, your standard of care in your profession does not require you to go back behind if the licensure and make sure that that licensing was a drug? 5 year to be the licensure and make sure that the licensing was a drug? 9 A. Well, I believe the pharmodes are not licensed by FDA, they're licensed by the state, but 11 yes, I rely on the local authorities to make sure 12 that the supply chain is indeed safe. 13 Q. That would be for the compounding pharmacist? 14 A. Yes. 15 A. Yes. 16 Q. You raly on the state pharmacy board to 17 properly license that pharmacist from whom you 18 acquire your drugs? 19 A. Yes. 10 Q. And you rely on the FDA to properly license the fruge manufacturer, suppliers from whom you 22 reactive your drugs? 13 A. Yes. 14 Q. Doctor, have you hind an opportunity to 15 review South Dakota's fethal injection protocol? 16 A. Yes. 17 Q. And I will provide you a copy. At least, I think I will. Where Is emy copy? 18 A. Yes. 19 Q. And I will provide you a copy. At least, I think I will. Where I se my copy? 19 A. Yes. 20 Q. And I will provide you a copy. At least, I think I will. Where I se my copy? 21 A. Yes. 22 Q. And wou reviewed that and you recognize it? 23 A. Yes. 24 Q. Doctor, have you hind an opportunity to 25 A. Yes. 26 Q. And you reviewed that and you recognize it? 26 A. Yes. 27 Q. And what is protocol ERMA.12.B before your want to use it, Paul. 28 Q. Do you have an opinion regerding whether ERMA.12.B if performed as written would provide a paintess and humane death for a condemned limits in South Dakota's? 28 A. Rouse would was a death for a condemned limits in provides you the assurance that the hinnee to whom the protocol is administed would experience a paintess and humane death for a condemned limits in the protocol is administed would experience a paintess and humane death for a condemned limits in the protocol is administed would approve on the serious of the person who may do the serious of the person who sees that IV could be the restonding from the condemned hinn	3 A Yes. 4 Q. And again, your standard of care in your profession daes not require you to go back behind the licensure and merks sure that that licensing was a drug? A. Well, I believe the pharmodes are not licensed by FDA, they're licensed by the state, but yes, I rely on the facel suthertitles to make sure that the supply chain is indeed safe. Q. That would be for the compounding phermacist? A. Yes. Q. You raily on the state phermacy board to properly license the pharmacist from whom you acquire your drugs? A. Yes. Q. And you rely on the FDA to properly license the drug manufacturer, suppliers from whom you receive your drugs? A. Yes. Q. Doctor, have you had an opportunity to Pege 19 review South Bakota's fethel injection protocol? A. Yes. Q. Do you have the protocol BRMA.12.B before your A. Yes. Q. Do you have an opinion regerding whether semalaces and humane death? A. Yes. Q. Do you have an opinion regerding whether semalaces and humane death for a condamned inmeta in outside syou the assurance that the licensing was a lines and humane death for a condamned inmeta in outside syou the assurance that the linese to whom he protocol is administed who do these reproduces who do these procedures in their normal job is aggregatiate. Q. And you rely on the FDA to properly license the drug manufacturer, suppliers from whom you receive your drugs? A. Yes. Q. Doctor, have you had an opportunity to Pege 19 review South Bakota's fethel injection protocol? A. Yes. Q. Do you have an opinion regerding whether Q. And you reviewed that and you recognize it? A. Yes. Q. Do you have an opinion regerding whether Similar in minimal produces a manufacturer, suppliers from whom you are receive your drugs? A. Yes. Q. Do you have an opinion head to supplie the individuals, but the fact that they remained to the suppose of setting an IV line? A. Yes. Q. Do you have an opinion head in the injection protocol? A. Yes. Q. Do you have an opinion regerding whether Similar in protocol in a manufacturer, in protocol in a manufacturer, i		ļ					
4 Q. And again, your standard of care in your profession does not require you to go back behind the licensure and meke sure that the filenshing was a drug? 9 A. Well, I believe the pharmodes are not to licensed by FDA, they're licensed by the state, but yes, I rely on the focal suthorities to make sure that the supply chain is indeed safe. 13 Q. That would be for the compounding pharmacists? 15 A. Yes. 16 Q. You raly on the state phermacy board to properly license the pharmacy board to properly license that pharmacy board to properly license the pharmacy board to properly license the drug reaming through the state phermacy board to properly license the drug reaming through the state phermacy board to properly license the drug reaming through the state phermacy board to properly license the drug reaming through the state phermacy board to properly license the drug reaming through the state phermacy board to properly license the drug reaming through the state phermacy board to properly license the drug reaming through the state phermacy board to go pack the state phermacy board to properly license the drug reaming through the state phermacy board to go pack the state phermacy board the provide sufficient search the state and administer the drugs? 10 A. Yes. 11 A. Yes. 12 A. Yes. 22 And you rely on the FDA to properly license the drug translation the provide your device and the state phermacy to go pack th	4 Q. And again, your standard of care in your profession does not require you to go back behind in the licensure and make sure that the licensing was a drug? A. Well, I believe the pharmacies are not licensed by FDA, they're licensed by the state, but yos, I rely on the local authorities to make sure that the supply chain is indeed safe. Q. That would be for the compounding pharmacist? A. Yes. Q. You raily on the state phermacy board to properly license the drug manufacturer, suppliers from whom you acquire your drugs? A. Yes. Q. And you rely on the FDA to properly license the drug manufacturer, suppliers from whom you receive your drugs? A. Yes. Q. Doctor, have you hind an opportunity to Page 19 review South Dakota's fethal injection protocol? A. Yes. Q. And I will provide you a copy. At least, I think I will. Where is my copy? MR. FULTON: I have that one marked if you want to use 0, Pag. A. Yes. Q. Do you have the protocol RMA.12.8 before you? A. Yes. Q. Do you have the protocol RMA.12.B before you? A. Yes. Q. Do you have an opinion regerding whether RMA.2.B. If performed as written would provide a analyses and humane death? for a condamned inmate in touth Dakota? A. It would. A. It would. Q. And what is labout the protocol that rovides you the assurance that the immete to whom he protocol is administered would experience a affinies and humane death? A. Does this apply to ell versions of the. A. Wes. Q. Do you there an opinion regerding whether rovides you then assurance that the limete to whom he protocol is administered with a protocol that rovides you the assurance and make to whom he protocol is administered with an opinion of the masthesiologist or nurse mesthesitive to its working and humane death? A. Does this apply to ell versions of the a. MR. SWEDLIND: It have nothing further.	3 A. Yes.						
5 profession daes not require you to go back behind 6 the licensure and meke sure that the ticensing was 7 validly given by the FDA before you would use a 8 drug? 9 A. Well, I believe the pharmacles are not 10 licensed by FDA, they're licensed by the state, but 11 yes, I rely on the local authorities to make sure 12 that the supply chain is indeed safe. 13 Q. That would be for the compounding 14 phermacist? 15 Q. You rely on the state phermacy board to 16 properly license that pharmacist from whom you 17 accept your drugs? 18 A. Yes. 19 Q. And you rely on the FDA to properly license 18 the drug manufacturer, suppliers from whom you 19 receive your drugs? 19 A. Yes. 20 Q. And you rely on the FDA to properly license 19 the drug manufacturer, suppliers from whom you 10 receive your drugs? 10 A. Yes. 11 Q. Doctor, have you had an opportunity to 12 review South Dakota's fethal injection protocol? 13 A. Yes. 14 Q. Doctor, have you had an opportunity to 15 review South Dakota's fethal injection protocol? 16 A. Yes. 17 Q. And I will provide you a copy. At least, I 18 think I will. Where is my copy? 19 MR. FULTON: I they that one marked if you want to use 0, Paul. 10 you want to use 0, Paul. 11 Yes. 12 Q. Do you have an opinion regerding whether 12 Explaints and humans death for a condamned limits in South Dekota? 18 A. Yes. 29 Q. And you reviewed that and you recognize lit? 20 A. Yes. 21 A. Yes. 22 Q. And you want to use 0, Paul. 23 A. Yes. 34 Q. Do you have an opinion regerding whether 24 Explaints and humans death for a condamned limits in South Dekota? 25 A. R. could be the extending another before the drug of the person who would provide a pharmacist step in the protocol that provides you the assurance transport to the president before they be done of two or three perplations of the person who is preparing the puttent before they be a copy. At least, I would, and the provide of the person who may do it based upon this protocol or muse mestellest who is working another before the protocol that provides you the assur	5 profession does not require you to go back behind the licensure and make sure that that licensing was a drug? A. Well, I believe the pharmodes are not licensed by FPA, they're iconsed by the state, but yes, I rely on the local authorities to make sure that the supply chair is indeed safe. Q. That would be for the compounding pharmacist? A. Yes. Q. You raiy on the state pharmacy board to properly license the pharmacist from whom you accurre your drugs? A. Yes. Q. And you rely on the FPA to properly license the drug manufacturer, suppliers from whom you receive your drugs? A. Yes. Q. Doctor, have you had an opportunity to Page 19 review South Dakcta's fethal injection protocol? A. Yes. Q. Do door, have you had an opportunity to Page 19 review South Dakcta's fethal injection protocol? A. Yes. Q. Do you have the protocol BRMA.12.B before you? Q. And you reviewed that and you recognize it? A. Yes. Q. Do you have an opinion reperding whether you. It's supposed to be right here. Q. Do you have an opinion reperding whether spanned dasth for a condemned inmetal in looth Dakcta? A. It would. Q. And what is it about the protocol that rovides you the assurance that the limete to whom he protocol is administored would experience a aniniess and humane death? A. It would. Q. And what is it about the protocol that rovides you the assurance that the limete to whom he protocol is administored would experience a aniniess and humane death for a condemned inmetal in looth Dakcta? A. It would. Q. And what is it about the protocol that rovides you the assurance that the limete to whom he protocol is administored would experience a aniniess and humane death? A. Does this apply the eli versions of the protocol that the protocol is administored would experience a aninies and humane death? A. Does this apply the eli versions of the protocol that the protocol is administored would experience a aninies and humane death? A. Does this apply the eli versions of the protocol that the protocol is administored woul	4 Q. And again, your standard of care in your	- }.					
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8 drug? 9 A. Well, I believe the pharmodes are not licensed by FDA, thisy're licensed by the state, but 11 yes, I raly on the local authorities to make sure 12 that the supply chain is indeed safe. 13 Q. That would be for the compounding pharmacist? 15 A. Yes. 16 Q. You raly on the state pharmacy board to 17 properly license that pharmacist from whon you is acquire your drugs? 16 Q. You raly on the FDA to properly license 12 the drug manufacturer, suppliers from whom you receive your drugs? 17 A. Yes. 18 Q. Doctor, have you had an opportunity to 19 page 19 Yes and livening and licensed, that person who sets that IV 17 lime is an ENT by profession and currently certified and licensed, that person who sets that IV 18 lime is an ENT by profession and currently certified and licensed, that person who sets that IV 18 lime is an ENT by profession and currently certified and licensed, that person who sets that IV 18 lime is an ENT by profession and currently certified and licensed, that person who sets that IV 19 lime is an ENT by profession and currently certified and licensed, that person who sets that IV 19 lime is an ENT by profession and currently certified and licensed, that person who sets that IV 19 lime is an ENT by profession and currently certified and licensed, that person who sets that IV 19 lime is an ENT by profession and currently certified and licensed, that person would in your opinion be capable of acting an IV line? 19 manufacturer, suppliers from whom you is acculted in a triple in a manufacturer, suppliers from whom you is a manufacturer, suppliers from whom you is acculted in a triple in a manufacturer, suppliers from whom you is acculted in a livenification of the person who sets that IV 19 lime is an ENT by lime? 19 manufacturer, suppliers from whom you is acculted in a livenification of the person who	I drug? A. Well, I believe the pharmedes ere not licensed by PDA, they're licensed by the state, but yes, I rely on the local authorities to make sure that the supply chain is Indeed safe. Q. That would be for the compounding pharmedist? A. Yes. Q. You raly on the state phermacy board to properly license that the supply chain is bridened safe. Q. You raly on the state phermacy board to properly license that the representation of the state phermacy board to acquire your drugs? A. Yes. Q. And you rely on the FDA to properly license the drug manufacturer, suppliers from whom you receive your drugs? A. Yes. Q. Doctor, have you had an opportunity to review South Dakotar's fethal injection protocol? A. Yes. Q. Doctor, have you had an opportunity to review South Dakotar's fethal injection protocol? A. Yes. Q. And I will provide you a copy. At least, I think I will. Where is my copy? MR. FULTON: I hister that one marked if you want to use it, Paul. MR. SWEDUINO: Yes, if I could. Thank you like supposed to be right here. Q. Do you have an opinion regerding whether and the protocol is administored would experience a aliness and humane death for a condamned immets in south Dakotar? A. I would. Q. And what is I about the protocol that revoldes you the assurance that the immete to whom the protocol is administored would experience a aliness and humane death for a condamned immets in south Dakotar? A. It would. Q. And what is I about the protocol that revoldes you the assurance that the immete to whom the protocol is administored would experience a aliness and humane death for a condamned immets in south Dakotar? A. It would. Q. And what is I about the protocol that revoldes you the assurance that the immete to whom the protocol is administored would experience a aliness and humane death? A. Does this apply to eli versions of the — A. Yes, and the manufaction of the manufaction of the state and the protocol is a provide a partition of the state and the precipility agent; an experience of the person wh							
9 A. Well, I believe the pharmocles are not licensed by FDA, they're licensed by the state, but 11 yes, I rely on the local subherities to make sure 12 that the supply chain is indeed safe. 13 Q. That would be for the compounding pharmoclet? 15 A. Yes. 16 Q. You raly on the state phermacy board to properly license that pharmacist from whom you acquire your drugs? 19 A. Yes. 19 Q. And you rely on the FDA to properly license the drug manufacturer, suppliers from whom you 12 receive your drugs? 19 A. Yes. 10 Q. Doctor, have you had an opportunity to 19 A. Yes. 10 Doctor, have you had an opportunity to 19 A. Yes. 11 Ethick in general whom one considers the drug manufacturer pounds and opportunity to 19 A. Yes. 12 A. Yes. 13 Q. And I will provide your a copy. At least, I think in general when one considers the state life that will. Where is my copy? 11 A. Yes. 12 A. Yes. 13 Q. And I will provide you a copy. At least, I think in general when one considers the irred population of ENTs, many of them are trained to insurt introvenous catateers. There no specific homology of the person who may do it based upon this protocol. RMA. 12.8 before you? A. Yes. Q. Do you have the protocol ERMA. 12.8 before you? A. Yes. Q. Do you have an opinion regerding whether A. Yes. Q. Do you have an opinion regerding whether South Dekota? A. I would. Q. And what is it about the protocol that provides you the assurance that the immete to whom the protocol? A. I would. Q. And what is the bout the protocol that provides you the assurance that the immete to whom the protocol is administored would asperience a painless and humane death? Page 21 Yes. 24 A. Does this apply to ell versions of the — 24 A. Yes. 25 A. Yes. 26 And you reviewed that and you recognize it? 30 A. Yes. 31 A. To could be a material to the operations of person, it could be the resident before they would be administered with a parallel sea of humane death? 32 A. Yes. 34 A. Does this apply to ell versions of the — 34 A. Yes. 35 A. To could be a material to the protocol that pr	ilicensed by FDA, they're licensed by the state, but yes, I rely on the local sutherities to make sure that the supply chain is indeed safe. Q. That would be for the compounding phermacis? A. Yes. Q. You rely on the state phermacy board to properly license that pharmacist from whom you acquire your drugs? A. Yes. Q. And you rely on the FDA to properly license the drug manufacturer, suppliers from whom you receive your drugs? A. Yes. Q. Doctor, have you had an opportunity to Page 19 A. Yes. Q. And I will provide you a copy. At least, I think I will. Where is my copy? MR. FULTON: I two and just the protocol BRMA.12.8 before Q. Do you have the protocol BRMA.12.8 before Your A. Yes. Q. Do you have the protocol BRMA.12.8 before Your A. Yes. Q. Do you have the protocol BRMA.12.8 before Your A. Yes. Q. Do you have an opinion regerding whether RRM.12.8 It performed as written would provide a stainless and humane death for a condemned immate in youth Dakota? A. I would. Q. And what is it about the protocol that rovides you the assurance that the immete to whom the protocol is administored would experience a alinless and humane death for a condemned immete in provided you the assurance that the immete to whom the protocol is administored would experience a alinless and humane death for a condemned immete in provided you the assurance that the immete to whom the protocol is administored would experience a alinless and humane death for a condemned immete in provided you the assurance that the immete to whom the protocol is administored would experience a alinless and humane death for a condemned immete in provided you the assurance that the immete to whom the protocol is administored would experience a alinless and humane death. For an immate? A. Yes. A. Does this apply to eli versions of the — Yes SWEDLUND: I have nothing further.							
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13 Q. That would be for the compounding pharmacist? 14 A Yes. 15 A Yes. 16 Q. You raly on the state phermacy board to properly license that pharmacist from whom you acquire you rely on the FDA to properly license the drug manufacturer, suppliers from whom you receive your drugs? 15 A Yes. 16 Q. And you rely on the FDA to properly license the drug manufacturer, suppliers from whom you receive your drugs? 17 A Yes. 18 Q. Doctor, have you had an opportunity to page 14 think a will. Where Is my copy? 19 A Yes. 10 Q. And I will provide you a copy. At least, I think a will. Where Is my copy? 10 A Yes. 11 Q. And I will provide you a copy. At least, I think a will. Where Is my copy? 12 A Yes. 13 Q. And I will provide you a copy. At least, I would go of the person who may do it based upon this protocol. I have the one marked if you want to use it, Paul. 15 A Yes. 16 Q. Or a head. 17 Properly license that phermacy board to be right hers. 18 Q. Doctor, have you had an opportunity to page 15 think a will. Where Is my copy? 19 A Yes. 20 A Yes. 21 A Yes. 22 So for example, the person who sets tha IV line for answer, doctor, object to foundation given that he capable of setting an IV line? 22 Safed It's beyond his area of expertise. Sorry to inswer, doctor, object to foundation given that he capable of setting an IV line? 22 Safed It's beyond his area of expertise. Sorry to inswer, doctor, object to foundation given that he capable of setting an IV line? 23 A Yes. 24 Q. Doctor, have you had an opportunity to Q. Go ahead. 25 Safed It's beyond his area of expertise. Sorry to inswer, doctor, object to foundation given that he capable of setting an IV line? 26 A Yes. 27 A Yes. 28 A It think in general when one considers the broad population of ENTS, many of them are trained to insurt intravenous catheters. I have no specific think in general when one considers the broad population of ENTS, many of them are trained to insurt intravenous catheters. I have no specific to insure intravenous catheters. I h	Q. That would be for the compounding pharmacist? A. Yes. Q. You raily on the state phermacy board to properly license that pharmacist from whom you acquire your drugs? A. Yes. Q. And you rely on the FDA to properly license the drug manufacturer, suppliers from whom you receive your drugs? A. Yes. Q. Doctor, have you had an opportunity to Page 10 Page 10 Page 10 Page 10 Page 10 A. Yes. Q. And I will provide your a copy. At least, I think will. Where is my copy? MR. FULTON: I have that one marked if you want to use it, Paul. MR. SWEDUND: Yes, if I could, Thank you. It's supposed to be right here. Q. Do you have the protocol ERMA.12.8 before you? A. Yes. Q. Do you have an opinion regerding whether serials and humane death for a condamned inmats in south Dekotar? A. It would. Q. And what is it about the protocol that rovides you the assurance that the immete to whom he protocol is administered would experience a sinless and humane death? A. Does this apply to eli versions of the — 133 vetting other individuals, but the fact that they their normal job is expropediate. The interior model is a dealificate providers who do these procedures in their normal job is exproperlate. 154 bein rormal job is exproperlate. 155 their normal job is expropriate. 165 Q. So for example, the person who sett that IV line for answer filled and licensed, that person who sett that IV line for answer. Jobical to fine person who move do it based upon think in general when one considers the broad-population of EMTs, many of them are brained to insurt intravenous catheters. I have no specific knowledge of the person who may do it based upon the provide your person and currently certified in answer, doctor, object to foundation given that he insured in some person in the insured in some providers who may do it based upon think in general when one considers the broad-population of EMTs, many of them are brained to insure intravenous catheters. I have no specific knowledge of the person who may do it based upon the provide your person and		- 1					
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16 Q. You raly on the state pharmacy board to properly license the pharmacist from whom you acquire your drugs? 29 A. Yes. 20 Q. And you rely on the FDA to properly license the drug manufacturer, suppliers from whom you receive your drugs? 30 A. Yes. 40 Q. Doctor, have you had an opportunity to 17 Page 19	Q. You raily on the state phermacy board to properly illoanse this pharmacist from whom you acquire your drugs? A. Yes. Q. And you rely on the FDA to properly license the drug manufacturer, suppliers from whom you receive your drugs? A. Yes. Q. Doctor, have you had an opportunity to Page 19 A. Yes. Q. And I will provide you a copy. At least, I think I will. Where is my copy? MR. FULTON: I have that one marked if you want to use it, Paul. MR. SWEDLUND: Yes, if I could. Thank you lit's supposed to be right here. Q. Do you have the protocol ERMA-12.8 before you? A. Yes. Q. Do you have an opinion regerding whether analyses and purples whether analyses and humane death for a condamned limites in youth Dekota? A. It would. Q. And what is it about the protocol that revivides you the assurance that the inmete to whom he protocol is administored would experience a alniess and humane death? A. Does this apply to eli versions of the — 16 Q. So for example, the person who sets tha IV line is an ENT by profession and currentity certifies and licensed, that person would in your opinion he capseling the put of properly license the drug that person would in your opinion he capseling into put of the person would in your opinion he capseling its put of the person would in your opinion he capseling its put of the person who means of expertise. Sorry to interrupt him. Q. Go ahead. Page 21 A. I think in general when one considers the broed population of EMTs, many of them are brained to insure intravenous catheters. I have no specific knowledge of the person who may do it based upon this protocol. I have the direction of EMTs, many of them are brained to insure intravenous catheters. I have no specific knowledge of the person who may do it based upon this protocol. I have the ferson of EMTs, many of them are brained to incord intravenous catheters. I have no specific knowledge of the person who may do it based upon this protocol. I have the ferson who are setting an IV line for an esthesion of EMTs, many of t	15 A. Yes.	- 1					
17 properly license the pharmacist from whom you accurred your drugs? 28 A. Yes. 29 Q. And you rely on the FDA to properly licenses the drug manufacturer, suppliers from whom you receive your drugs? 3 A. Yes. 4 Q. Doctor, have you had an opportunity to 29 review South Dakota's fethal infection protocol? 4 A. Yes. 4 Q. And I will provide your a copy. At least, I think I will. Where is my copy? 3 MR. FULTON: I have that one marked if you want to use it, Paul. 4 You want to use it, Paul. 5 Q. Do you have the protocol ERMA.12.8 before you? A. Yes. Q. Do you have the protocol ERMA.12.8 before you? A. Yes. Q. Do you have an opinion regerding whether ERMA.12.8 if performed as written would provide a painless and humane death for a condemned inmets in South Dekota? A. It would. Q. And what is it about the protocol that provides you the assurance that the immete to whom the protocol is administored would experience a painless end humane death? A. Does this apply to eli versions of the — 11 Iline is an EMT by profession and currently certified and licensed, that person would in your opinion he 19 capeble of setting an IV line? MR. FULTON: I would in the FDA to properly licenses A. Yes. Q. Do dotor, have you had an opportunity to Page 19 A. Yes. Q. And I will provide you a copy. At least, I think in general when one considers the broad of EMEs, many of them are trained to insort intravenous catheters. I have no specific to insort intravenous catheters. I have not specific to insort intravenous ca	properly license the pharmacist from whom you acquire your drugs? A. Yes. Q. And you rely on the FDA to properly license the drug manufacturer, suppliers from whom you receive your drugs? A. Yes. Q. Doctor, have you had an opportunity to Page 19 review South Dakota's fethal infection protocol? A. Yes. Q. And I will provide you a copy. At least, I think I'm general when one considers the broad population of EMTs, many of them are brained to insurt intravenous catheters. I have no specific knowledge of the person who may do it based upon this protocol. It's supposed to be right here. Q. Do you have the protocol ERMA.12.B before you? A. Yes. Q. And you rely on the FDA to properly license the drug manufacturer, suppliers from whom you receive your drugs? A. Yes. Q. And I will provide you a copy. At least, I think I'm general when one considers the broad population of EMTs, many of them are brained to insurt intravenous catheters. I have no specific knowledge of the person who may do it based upon this protocol. You want to use it, Paul. Q. Okay. In the operation-room settling, who are the people that set an IV line for a nesthesiologist, it could be the entending under the direction of the ensethesiologist, or it could be a nurse who is preparing the petient before they're transported to the operating room. Q. Do you have an opinion regerding whether the first think in general when one considers the seminacing that here to could be nearly and the person who may do it based upon this protocol. A. Yes. Q. Do you have the protocol ERMA.12.B before you have the protocol ERMA.12.B before the people that set an IV line for a nesthesiologist, or it could be an aurse who is preparing the petient before they're transported to the operating room. Q. Do you have an opinion regerding whether the two-drugs protocoles well, and it. They would be a nurse who is preparing the petient before they're transported to the operating from they're transported to the operating to the person will be administered with a pe	6 Q. You rely on the state phermacy board to						
18 acquire your drugs? 19 A. Yes. 10 Q. And you rely on the FDA to properly licenese the drug manufacturer, suppliers from whom you receive your drugs? 20 A. Yes. 21 Q. Doctor, have you had an opportunity to 22 stated it's beyond his area of expertise. Scrry to interrupt him. 23 A. Yes. 24 Q. Doctor, have you had an opportunity to 25 review South Dakota's fethal injection protocol? 26 A. Yes. 27 Q. And I will provide you a copy. At least, I think I will. Where is my copy? 28 MR. FULTON: I have hore marked if you want to use it, Paul. 29 MR. SWEDLUND: Yes, if I could. Thank you. It's supposed to be right hers. 20 Do you have the protocol ERMA.12.8 before you? 31 A. Yes. 32 Q. And you reviewed that and you recognize it? 33 A. Yes. 44 Q. Doctor, have you had an opportunity to 35 A. Yes. 56 Q. And will provide you a copy. At least, I think in general when one considers the broad population of ENTs, many of them are trained to insurt intravenous catheters. I have no specific knowledge of the person who may do it based upon this protocol. 45 A. I tould be one of two or three pepulations of people, it could be the attending questionsiologist, it could be the resident anesthesiologist, or it could be a nurse who is preparing the patient before they drectron of the entertion of the ente	acquire your drugs? A. Yes. Q. And you rely on the FDA to properly licenes the drug manufacturer, suppliers from whom you receive your drugs? A. Yes. Q. Doctor, have you had an opportunity to Page 19 review South Dakota's fethal injection protocol? A. Yes. Q. And I will provide you a copy. At least, I think I will. Where is my copy? A. Yes, I could. Thank you want to use it, Paul. A. Yes, I could. Thank you have the protocol ERMA.12.8 before you have the protocol ERMA.12.8 before Q. Do you have the protocol ERMA.12.8 before Q. Do you have an opinion regerding whether ERMA.12.8 if performed as written would provide a palniess and humane death for a condamned limits in for the condamned limits in footh Dekota? A. It would. Q. And what is it about the protocol that revivides you there assume that the inmete to whom the protocol is administored would experience a athless and humane death? A. Does this apply to eli versions of the — 20 31 32 32 34 35 35 36 37 38 38 39 30 30 31 30 30 31 30 31 30 31 31	7 properly license the pharmacist from whom you						
19 Q. And you rely on the FDA to properly license 1 the drug manufacturer, suppliers from whom you 2 receive your drugs? 3 A. Yes. 4 Q. Doctor, have you had an opportunity to Page 19 review South Dakota's fethal injection protocol? 4 A. Yes. Q. And I will provide you a copy. At least, I think I will. Where is my copy? MR. FULTON: I have the one marked if you want to use it, Paul. MR. SWEDLUND: Yes, if I could. Thank you. It's supposed to be right hers. Q. Do you have the protocol EMMA.12.8 before you? A. Yes. Q. And you reviewed that and you recognize it? A. Yes. Q. And you reviewed that and you recognize it? A. Yes. Q. Do you have an opinion regerding whether ERMA.12.8 if performed as written would provide a painless and humane death for a condamned inmats in South Dekota? A. It would. Q. And what is it about the protocol that provides you the assurance that the inmete to whom the protocol is administored would experience a painless and humane death? A. Does this apply to all versions of the— 11 acapeble of setting an IV line? MR. FULTON: I would just before you answer, doctor, object to foundation given that he stated it's beyond his area of expertise. Scrry to interrupt him. 22 answer, doctor, object to foundation given that he stated it's beyond his area of expertise. Scrry to interrupt him. 23 interrupt him. 24 Q. Go ahead. A. I think in general when one considers the bread of the prescription of EMTs, many of them are trained to insure intervence scatheters. I have no specific knowledge of the person who may do it based upon this protocol. Q. Okay. In the operation-room setting, who are the people that eat an IV line for an esthesistic year. A. It could be one of two or three pepulations of people, it could be the estending anosthesiologist, it could be the resident anesthesiologist or it could be a nurse who is preparing the petient before they do the person who may do it based upon this protocol. Q. And what is it about the protocol that provides you there, doctor, if you obsquire the protocol	A. Yes. Q. Doctor, have you had an opportunity to Page 19 review South Dakota's fethal infection protocol? A. Yes. Q. And I will provide yow a copy. At least, I think I will. Where is my copy? MR. FULTON: I have that one marked if you want to use it, Paul. A. Yes. Q. Do you have the protocol ERMA.12.8 before you? A. Yes. Q. And you reviewed that and you recognize it? A. Yes. Q. And you reviewed that and you recognize it? A. Yes. Q. Do you have an opinion regerding whether ERMA.12.8 if performed as written would provide a control bedota? A. It would. Q. And what is it about the protocol that revivides you the assurance that the innete to whom he protocol is administored would experience a ainless and humane death? A. Doss this apply to all versions of the — 19 10 10 11 12 12 13 14 15 15 16 20 17 18 18 18 19 18 19 19 19 10 10 11 12 12 13 14 15 15 15 16 16 17 18 18 19 19 19 19 19 19 19 19	8 acquire your drugs?						
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KACZYNSKI REPORTING

Seventh Judicial Circuit Court

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CIRCUIT JUDGES

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Kristi K. Wammen
STAFF ATTORNEY
Merya V. Tellinghuisen

February 27, 2013

Mr. Paul Swedlund Sheri Wald Sundem Attorney General's Office 1302 E. Hwy. 14 #1 Pierre, SD 57501

Mr. Nell Fulton Federal Public Defender's Office P.O. Box 1258 Pierre, SD 57501

Re: Decision (Civ. File 02-924)

Dear Counsel:

Enclosed please find my amended final decision in the Rhines' matter. Please prepare the appropriate findings of fact, objections and proposed Orders related to the decision.

Sincerely,

Thomas L. Trimble

Circuit Judge

Seventh Judicial Circuit

EXHIBIT

TLT*mvt

Pennington County, SD-FILED IN CIRCUIT COURT

FEB 2 7 2013

Range Truman, Clerk of Courts

_Deputy

STATE OF SOUTH DAKOTA)) SS	IN CIRCUIT COURT
COUNTY OF PENNINGTON)	SEVENTH JUDICIAL CIRCUIT
CHARLES RUSSELL RHINES)	File No. Civ. 02-924
Petitioner,	AMENDED MEMORANDUM DECISION ON CHALLENGE TO SOUTH DAKOTA'S EXECUTION PROTOCOL
DOUGLAS WEBER, Warden, South) Dakota State Penitentiary,)	AND ORDER
) Respondent,)	

I. PROCEDURAL AND FACTUAL BACKGROUND

The extensive procedural and factual background of this habeas petition was set forth in the Motion to Dismiss/Summary Judgment decision filed on September 17, 2012. Summary Judgment was denied as to Petitioner's Counts 8, 11 and 12. On December 18, 2012, a hearing was held for the purpose of receiving evidence as to those remaining claims. Both parties submitted exhibits including deposition testimony. Petitioner's objections to Exhibits 7R, 8R, 9R, 10R, and 25R are sustained. The admission of this evidence was not stipulated to by the parties nor was the information elicited from any witness. No live witnesses were called at the hearing. Most of the exhibits referenced in this decision are all scaled; therefore, references will be to the numbers/letters in the scaled court file. The issues remaining are:

Ground Eight:

¶28 The manner of execution as provided by SDCL 23A-27A-32 as in effect at the time Charles R. Rhines' conviction violated his rights to due process of law and constitutes cruel and unusual punishment under the Eighth Amendment of the United States Constitution and the corresponding Article under the South Dakota Constitution:

- a. Executions are unconstitutional if they involve unnecessary and wanton infliction of pain or torture or lingering death.
- b. Where pain is inflicted in an execution results from something more than the mere extinguishment of life, the United States Constitution Bighth Amendment and the corresponding South Dakota articles' prohibition against cruei and unusual punishment are implicated.
- c. Given the two chemicals specified in SDCL 23A-27A-32 in effect at the time of Charles R. Rhines' conviction and the absence of a person trained to administer and monitor

anesthesia, it is reasonably foreseeable that Charles R. Rhines may experience suffocation and excruciating pain during his execution in violation of the Eighth Amendment and the corresponding South Dakota Amendment.

d. An execution pursuant to SDCL 23A-27A-23 as codified on the date of Charies R. Rhines' conviction violates the United States Constitution and the South Dakota Constitution prohibition against cruel and unusual punishment and is therefore unconstitutional.

Ground Eleven:

- ¶ 31 The execution of Charles R. Rhines by lethal injection as set forth in the present SDCL 23A-27A-32 violates Rhines' rights to due process under law and his rights against cruel and unusual punishment guaranteed under the United States Constitution and the South Dakota Constitution.
- a. SDCL 23A-27A-32 was amended by the South Dakota Legislature during the 2007 legislative session.
- b. On information and beiief, the South Dakota Legislature rejected proposed amendments requiring executions be oarried out in the most humane manner possible.
- c. SDCL 23A-27A-32 removes the requirement of a physician participation in the execution process.
- d. Executions are unconstitutional if they involve unnecessary and wanton infliction of pain or torture or lingering death.
- e. Where pain inflicted in an execution results from something more than the mere extinguishment of life, the constitutions of the United States and South Dakota, South Dakota Articles prohibition against cruel and unusual punishment are implicated.
- ¶32 Upon information and belief, the protocol presently in effect for lethal injection execution uses a three drug cocktail.
- ¶33 With the three drug cocktail presently believed to be used in executions, in the absence of a person trained to administer and monitor an anesthesia, it is reasonably foreseeable that Charles R. Rhines may experience suffocation and excruciating pain during his execution in violation of the Constitutions of the United States and South Dakota.
- ¶34 An execution pursuant to the present SDCL 23A-27A-32 violates the United States Constitution and the South Dakota Constitution's prohibition against oruel and unusual punishment and it is therefore unconstitutional.

Ground Twelve:

- ¶35 Charles R. Rhines' right to due process of law against cruei and unusual punishment is guaranteed under the United States Constitution and the South Dakota Constitution is violated by the statutory procedure set forth in 23A-27A-32.
- a. SDCL 23A-27A-32 was passed by the South Dakota legislature during the 2007 legislative session.
- b. SDCL 23A-27A-32 was amended in two specific areas: it removed the specifications of the two drug cocktail to be used in the lethal injection by the prior statute, and substituted in its place the requirement that the Warden should determine the substances and the quantity of substances used for the punishment of death. The statute provided no other detail recording the Warden's decision. The second change was that a physician was no longer required to participate in the execution process.
- ¶36 Executions are unconstitutional if they involve unnecessary and wanton infliction of pain or torture or lingering death.
- a. Pain inflicted in an execution results from something more than the mere extinguishment of life, the United States Constitution and the South Dakota Constitution is prohibition against cruel and unusual punishment is implicated.
- b. On information and belief, the South Dakota legislature rejected proposed amendments requiring executions to be carried out in the most humane manner possible.
- ¶37 Given the fact that the Warden is given no guidance as to the type of substances used or the quality of substances used for the punishment of death, and there is no requirement by iaw that the execution be carried out in a humane manner, and the absence of a person trained to administer and monitor an anesthesia; it is reasonably foreseeable that Charles R. Rhines may experience suffocation and excruciating pain during his execution, as allowed under the present statute.
- ¶38 An execution pursuant to the present SDCL 23A-27A-32 violates the United States Constitution and the South Dakota Constitution prohibition against cruel and unusual punishment and therefore is unconstitutional.

Essentially, Petitioner's claims can be summarized into two issues. First, whether the lethal injection protocol adopted and implemented by the State of South Dakota complies with the mandates of the United States Supreme Court as set forth in the Baze v. Rees case? And, secondly, whether the lethal injection protocol violates Article VI, §23 of the South Dakota Constitution? The Petitioner's claims will be addressed separately below. All other issues raised by Petitioner in his Writ of Habeas Corpus have been addressed in the Memorandum Decision On Motion To Dismiss Or For Summary Judgment issued in September, 2012.

II. ANALYSIS

History of the Death Penalty and its application in South Dakota

Over South Dakota's history as both a territory and a state, 18 men have been executed. When South Dakota was first settled and was still Dakota Territory, hangings were the preferred method of execution. Between 1877 and 1915, 14 men were executed by hanging in South Dakota. See Dept. of Corrections, http://doc.sd.gov/about/faq/capltolpunishment.aspx. The first was Jack McCall, the killer of Wild Bill Hickok, who was hanged in 1877. While hanging was the most "universal method of execution" in the United States during this time, the Governor of New York commissioned a panel to find:

the most humane and practical method known to modern science of carrying into effect the sentence of death," "New York became the first State to authorize electrocution as a form of capital punlshment. Glass v. Louisiana, 471 U.S. 1080, 1082, and n. 4, 105 S.Ct. 2159, 85 L.Ed.2d 514 (1985) (Brennan, J., dissenting from denial of certiorari); Denno, supra, at 373. By 1915, 11 other States had followed sult, motivated by the "well-grounded belief that electrocution is less painful and more humane than hanging." Malloy v. South Carolina, 237 U.S. 180, 185, 35 S.Ct. 507, 59 L.Ed. 905 (1915).

Baze v. Rees, 553 U.S. 35, 42, 128 S.Ct. 1520, 1526 (2008).

Executions by hanging continued in South Dakota until the death penalty was abolished in 1915. See, 1915 S.L. Ch. 158, H.B. 21. In 1933, the death penalty was reinstated and the electric chair became the sole method of execution. In 1947, George Sitts was convicted of murdering DCI agent Tom Matthews who was attempting to arrest Sitts on a fugitive warrant from Minnesota. He also killed Butte County Sherlff Dave Malcolm; however, he was first tried for Matthew's murder and after he was sentenced to death, the state did not try him for Malcolm's murder. See, State v. Sitts, 71 S.D. 494, 26 N.W.2d 187 (1947). He was the first and only person executed by electric chair in South Dakota.

In Furman v. Georgia, 408 U.S. 238, 92 S.Ct. 2726, 33 L.Ed.2d 346 (1972), the United States Supreme Court held a Georgia death penalty statute violated the 8th and 14th Amendments prohibiting cruel and unusual punishment:

Petitioner in No. 69-5003 was convioted of murder in Georgia and was sentenced to death pursuant to Ga.Code Ann. s 26-1005 (Supp.1971) (effective prior to July 1, 1969). 225 Ga. 253, 167 S.E.2d 628 (1969). Petitioner in No. 69-5030 was convicted of rape in Georgia and was sentenced to death pursuant to Ga.Code Ann. s 26-1302 (Supp.1971) (effective prior to July 1, 1969). 225 Ga. 790, 171 S.E.2d 501 (1969). Petitioner in No. 69-5031 was convicted of rape in Texas and was sentenced to death pursuant to Vernon's Tex.Penal Code, Art. 1189 (1961). 447 S.W.2d 932 (Ct.Crim.App.1969). Certiorari was granted limited to the following question: 'Does the imposition and carrying out of the death penalty in (these cases) constitute cruel and unusual punishment in violation of the Eighth and Fourteenth Amendments?' 403 U.S. 952, 91 S.Ct. 2287, 29 L.Ed.2d 863 (1971). The Court holds that the imposition and carrying out of the death penalty in

these cases constitute cruel and unusual punlshment in violation of the Elghth and Fourteenth Amendments. The judgment in each case is therefore reversed insofar as it leaves undisturbed the death sentence imposed, and the cases are remanded for further proceedings. So ordered.

Id. (emphasis added.) The court issued a per curlum decision which was less than one page iong which reversed the imposition of the death penalty on the three consolidated cases. Justices Dougias, Brennan, Stewart, White and Marshall each wrote separate opinions in support of the judgments. Justices Blackmun, Powell and Renquist each filed separate dissents. The problem the Court had in the Furman case was that there were no standards for a jury to apply to the death penalty determination:

Thus, these discretionary statutes are unconstitutional in their operation. They are pregnant with discrimination and discrimination is an ingredient not compatible with the idea of equal protection of the laws that is implicit in the ban on 'cruel and unusual' punishments.

Any iaw which is nondiscriminatory on its face may be applied in such a way as to violate the Equal Protection Clause of the Fourteenth Amendment. Yick Wov. Hopkins, 1 i 8 U.S. 356, 6 S.Ct. 1064, 30 L.Ed. 220. Such conceivably might be the fate of a mandatory death penalty, where equal or lesser sentences were imposed on the elite, a harsher one on the minorities or members of the lower castes. Whether a mandatory death penalty would otherwise be constitutional is a question I do not reach:

Furman v. Georgia, 408 U.S. 238, 257, 92 S.Ct. 2726, 2736 (Ga. 1972) Justice Dougias concurring.

This case led to a de facto nationwlde moratorium on the death penalty for 9 years. See, Baze v. Rees, 553 U.S. 35, 42, 128 S.Ct. 1520, 1526. That moratorium ended with the United States Supreme Court's decision in Gregg v. Georgia. 428 U.S. 153, 96 S.Ct. 2909, 49 L.Ed.2d 859 (1976). Id. That decision held that the "statutory system under which Gregg was sentenced to death does not violate the Constitution." Gregg, 428 U.S. 207, 96 S.Ct. 2941. As a result of the Gregg case, state legislatures began reexamining electrocution as a "means of assuring a humane death." Baze, 553 U.S. 42, 128 S.Ct. 1526. In order to eliminate the issues the Court found in the Furman case, Georgia enacted a statutory scheme for the imposition of the death penalty. Gregg, 428 U.S. 161, 96 S.Ct. 2920. The trial was bifurcated into the gulit or innocence phase by either a judge or jury. Id. After a gullty verdict or finding, a presentence hearing was conducted before whoever made the guilt determination. Id.

"(T)he judge (or jury) shall hear additional evidence in extenuation, mitigation, and aggravation of punishment, including the record of any prior oriminal convictions and pleas of guilty or pleas of nolo contendere of the defendant, or the absence of any prior conviction and pleas: Provided, however, that only such evidence in aggravation as the State has made known to the defendant prior to his trial shall be admissible. The judge (or jury) shall also hear argument by the defendant or his counsel and the prosecuting attorney . . . regarding the punishment to be imposed." s 27-2503. (Supp. 1975).

The defendant is accorded substantial latitude as to the types of evidence that he may introduce. See *Brown v. State*, 235 Ga. 644, 647-650, 220 S.Ed.2d 922, 925-926 (1975). Evidence considered during the guilt stage may be considered during the sentencing stage without being resubmitted. *Eberheart v. State*, 232 Ga. 247, 253, 206 S.E.2d 12, 17 (1974).

Gregg, 428 U.S. 163-164, 96 S.Ct. 2920-21.

Furthermore, under the statutory scheme, the jury or court must have also found beyond a reasonable doubt, at least one aggravating circumstance as found in the statute. The statutory scheme also included an expedited direct review by the Georgia Supreme Court. If the Court affirmed the death sentence, then it was required to reference similar cases it took into consideration. Gregg, 428 U.S. 167, 96 S.Ct. 2922.

Interestingly, part of the Supreme Court's decision in *Gregg* looked at the history of the death penalty:

It is clear from the foregoing precedents that the Eighth Amendment has not been regarded as a static concept. As Mr. Chief Justice Warren said, in an oft-quoted phrase, "(t)he Amendment must draw its meaning from the evolving standards of decenoy that mark the progress of a maturing society." Trop v. Dulles, Supra, 356 U.S. at 101, 78 S.Ct., at 598. See also Jackson v. Bishop, 404 F.2d 571, 579 (CA 8 1968). Cf. Robinson v. California, supra, 370 U.S., at 666, 82 S.Ct., at 1420. Thus, an assessment of contemporary values concerning the infliction of a challenged sanction is relevant to the application of the Eighth Amendment. As we develop below more fully, see Infra, at 2926-2927, this assessment does not call for a subjective judgment. It requires, rather, that we look to objective indicia that reflect the public attitude toward a given sanction.

Gregg, 428 U.S. 173, 96 S.Ct. 2925. The Court further examined the role of the judiciary in determining the constitutionality of a legislative enactment:

But, while we have an obligation to insure that constitutional bounds are not overreached, we may not act as judges as we might as legislators.

"Courts are not representative bodies. They are not designed to be a good reflex of a democratic society. Their judgment is best informed, and therefore most dependable, within narrow limits. Their essential quality is detachment, founded on independence. History teaches that the independence of the judiciary is jeopardized when courts become embroiled in the passions of the day and assume primary responsibility in choosing between competing political, economic and social pressures." Dennis v. United States, 341 U.S. 494, 525, 71 S.Ct. 857, 875, 95 L.Ed. 1137 (1951) (Frankfurter, J., concurring in affirmance of judgment).

Therefore, in assessing a punishment selected by a democratically elected legislature against the constitutional measure, we presume its validity. We may not require the legislature to select the least severe penalty possible so long as the penalty selected is not

cruelly inhumane or disproportionate to the crime involved. And a heavy burden rests on those who would attack the judgment of the representatives of the people.

Gregg, 428 U.S. 175, 96 S.Ct. 2926.

Ultimately, the Gregg court upheld Georgia's death penalty statutes:

In summary, the concerns expressed in *Furman* that the penalty of death not be imposed in an arbitrary or capricious manner can be met by a carefully drafted statute that ensures that the sentencing authority is given adequate information and guidance. As a general proposition these concerns are best met by a system that provides for a bifurcated proceeding at which the sentencing authority is apprised of the Information relevant to the imposition of sentence and provided with standards to guide its use of the Information.

Gregg, 428 U.S. 195, 96 S.Ct. 2935.

Following the *Gregg* decision, a new version of the death penalty was enacted in South Dakota in 1979. See 1979 SB 53; see former SDCL 22-6-1 (1979); SDCL 22-16-9 (1979). SDCL 22-19-1 (1979). This statutory scheme embraced the dictates of *Gregg* and provided for aggravating circumstances, a mitigation hearing, an expedited direct review and a proportionality review of the sentence. No one in South Dakota was executed between the 1947 electrocution of Sitts and the 2007 execution of Elijah Page by lethal Injection.

The South Dakota legislature amended SDCL 23A-27A-32 in 2007 to provide for execution "by the intravenous injection of a substance or substances in a lethal quantity." The statute instructed the "Warden, subject to the approval of the secretary of corrections, [to] determine the substances and quantity of substances used for the punishment of death." SDCL 23A-27A-32.

Per the directives given to him by SDCL 23A-27A-32, the Warden promulgated a policy effective June 14, 2007, providing for execution by: (1) "Sodium Pentothal, (aka Sodium Thiopental)...in a quantity sufficient to ensure the inmate is and remains unconscious and is not subjected to the unnecessary and wanton infliction of pain;" (2) Pancuronium Bromide to stop the inmate's breathing, and; (3) Potassium Chloride to stop the inmate's heart. See Exhibit 3.

Subsequent to formulating the June 14, 2007, protocol, the United States Supreme Court's Baze decision detailed the safeguards the court deemed constitutionally sufficient to protect condemned inmates from anesthetic maladministration. Baze v. Rees, 553 U.S. 54-61, 128 S.Ct. 1533-1538. As a result, the Warden consulted with legal counsel to determine what changes should be made to the June 2007 policy. The DOC revised the policy in August 2010 to incorporate further safeguards against anesthetic maladministration mandated by Baze. See Weber Affidavit, Exhibit 3R, ¶¶ 6-8. The revised protocol called for execution by the same three chemicals as originally specified in the June 14, 2007, protocol, but with newly specified dosages. Id. at ¶8.

In response to emerging judicial acceptance of pentobarbital as an execution anesthetic, the Warden again modified the protocol in October of 2011 to provide for execution via a one-drug, pentobarbital protocol for all prospective executions. Id. at ¶9. South Dakota has now joined Ohio, Washington, Idaho, Oklahoma and Pennsylvania with having a one drug protocol. While the October 13, 2011, protocol retains three and two drug options utilizing sodium thiopental, those exist as backup procedures should future of cumstances require DOC to revert to those earlier procedures.

After the executions of Eric Robert and Donald Moeller in October 2012, the Warden modified the protocol slightly to provide inmates with express assurance that any compounded execution drugs would be prepared according to the governing standards of the United States Pharmacopeia. The November 2012 protocol retains *Baze's* safeguards for the proper administration of the anesthetic. See Exhibit 2R.

Issue One

Whether Petitioner's challenge to the lethal injection protocol adopted and implemented by the State of South Dakota as set forth in detail in Petitioner's Habeas Petition Grounds 8, 11 and 12, compiles with the mandates of the United States Supreme Court as set forth in the Baze v. Rees and the Eighth Amendment to the United States Constitution?

A. Baze v. Rees and Substantial Risk of Serious Harm and Suffering

Petitioner claims that the lethal injection protocol adopted and implemented by South Dakota "does not adequately guard against substantial risk of serious harm and suffering." See Petitioner's Pretrial Brief, p. 1. Petitioner further argues that South Dakota has not "chosen individuals to carry out the execution who have adequate and appropriate training and experience to guard against that risk." *Id.*

Like Baze, where the United States Supreme Court addressed whether Kentucky's three-drug lethal injection method of capital punishment posed an unacceptable risk of significant pain and was cruel and unusual punishment under the Elghth Amendment, Rhines' argument centers on the risk of serious harm and suffering. Baze v. Rees, 553 U.S. 35, 128 S.Ct. 1520 (2008). Ultimately, the Court held that Kentucky's method of capital punishment satisfied the Eighth Amendment:

The Eighth Amendment to the Constitution, applicable to the States through the Due Process Clause of the Fourteenth Amendment, see Robinson v. California, 370 U.S. 660, 666, 82 S.Ct. 1417, 8 L.Ed.2d 758 (1962), provides that "[e]xcessive ball shall not be required, nor excessive fines imposed, nor cruel and unusual punishments inflicted." We begin with the principle, settled by Gregg, that capital punishment is constitutional. See 428 U.S., at 177, 96 S.Ct. 2909 (joint opinion of Stewart, Poweil, and STEVENS, JJ.). It necessarily follows that there must be a means of carrying it out. Some risk of pain is inherent in any method of execution—no matter how humane—if only from the

prospect of error in following the required procedure. It is clear, then, that the Constitution does not demand the avoidance of all risk of pain in carrying out executions.

(emphasis added), Id., 553 U.S. 47, 128 S.Ct. 1529. Thus, Rhines does not challenge lethal injection per se. Rather, the challenge is to the protocol and the manner in which the execution is carried out. Petitioner argues that there is a significant risk that the drugs will not be properly administered which will lead to severe pain when the other chemicals are administered and therefore, the possibility of improper administration of the drugs would be violative of the Eighth Amendment. However, the Supreme Court has held that in order to prevail on a claim of cruel and unusual punishment there must be "substantial risk of serious harm":

To establish that such exposure violates the Eighth Amendment, however, the conditions presenting the risk must be "sure or very likely to cause serious illness and needless suffering," and give rise to "sufficiently imminent dangers." Helling v. McKinney, 509 U.S. 25, 33, 34–35, 113 S.Ct. 2475, 125 L.Ed.2d 22 (1993) (emphasis added). We have explained that to prevail on such a claim there must be a "substantial risk of serious harm," an "objectively intolerable risk of harm" that prevents prison officials from pleading that they were "subjectively blameless for purposes of the Eighth Amendment." Farmer v. Breman, 511 U.S. 825, 842, 846, and n. 9, 114 S.Ct. 1970, 128 L.Ed.2d 811 (1994).

Baze v. Rees, 553 U.S. 49-50, 128 S.Ct. 1530-31. The Court further explained that "simply because an execution method may result in pain...does not establish the sort of 'objectively intolerable risk of harm' that qualifies as cruel and unusual." Id. It is important to note that following Baze, no federal appellate court has invalidated a lethal injection protocol under the Eighth Amendment. Cooey v. Strickland, 589 F.3d 210, 221 (6th Cir. 2009); Nooner v. Norris, 594 F.3d 592, 596 (8th Cir. 2010); Clemens v. Crawford, 585 F.3d 1119, 1124 (8th Cir. 2007).

The Cooey court explained in detail what Baze does not require:

In thinking about what Baze requires, it is helpful to remember what it does not. The opinion contains several controlling premises within which Biros must formulate his challenge: Capital punishment is constitutional, see id. at 1529; death-row inmates cannot use method-of-execution challenges to prohibit what the Constitution allows, ld.; "the Constitution does not demand" a pain-free execution, id. at 1529, 1537; and an inmate cannot question a state's execution protocol without providing "feasible, readily implemented" alternatives that "significantly reduce a substantial risk of severe pain," see id. at 1532 (emphasis added); id. at 1531 ("[A] condemned prisoner cannot successfully challenge a State's method of execution merely by showing a slightly or marginally safer alternative."). Significantly, the Constitution does not allow the federal courts to act as a best-practices board empowered to demand that states adopt the least risky execution protocol possible. See id. at 1529, 1531. Within this framework, the Supreme Court has never held that an inmate met the "heavy burden" of demonstrating that a state's execution protocol is "cruelly inhumane" in violation of the Constitution. See ld. at 1533 (citing Gregg, 428 U.S. at 175, 96 S.Ct. 2909); see also id. at 1529, 1531; Harbison, 571 F.3d at 535 (rejecting a challenge to Tennessee's lethal injection protocol after *Baze*).

With these standards in mind, the next step is to compare the *Baze* requirements with South Dakota's protocol to determine whether they are substantially similar and thus, constitutional.

B. South Dakota's Lethal Injection Protocol is Substantially Similar to Baze and is Constitutional on its Face

After Baze was decided by the United States Supreme Court in 2008, South Dakota's Warden consulted with legal counsel to determine what changes, if any, should be made to South Dakota's existing protocol in order for it to be compilant with the mandates of Baze. Department of Corrections revised its existing protocol in August 2010. Weber Protocol Affidavit, Exhibit 3R, ¶ 11-14. This revised protocol used the same three-drug protocol approved in Baze. In response to emerging judicial acceptance of pentobarbital as an execution anesthetic, South Dakota's Warden again modified the protocol in October of 2011 to provide for execution via a one-drug, pentobarbital protocol for all prospective executions. Exhibit 2R, ERM A.12(B)(H), Weber Protocol Affidavit, Exhibit 3R, ¶14. At that time, South Dakota joined Ohio and Washington In moving to a one-drug protocol. Since then, Idaho, Okiahoma, and Pennsylvania have also adopted a one-drug, pentobarbital protocol.

After the executions of Eric Robert and Donald Moeller in October, 2012, the South Dakota Warden modified the protocol slightly to provide inmates with express assurance that any compounded execution drugs would be prepared according to the governing standards of the United States Pharmacopeia. The November 2012 protocol retains *Baze's* safeguards for the proper administration of the anesthetic. Exhibit 2R, ERM A.12(B)(D)(I). Those are:

- 1. The execution is performed under the oversight and command of the Warden, who, by statute and policy is charged with numerous dutles to ensure a humane execution. Exhibit 3R, Weber Protocol Affidavit, $\P 2$.
- 2. The Warden assures that two complete sets of pentobarbital syringes are prepared for the execution. Exhibit 3R, Exhibit 2R, ERM A.12(B)(A)(3).
- 3. Ambulance staff equipped with advanced life support capabilities, including a heart defibrillator and such supplies and equipment as would be needed to attempt to revive an individual who has been injected with pentobarbital shall be on standby at the SDSP. Exhibit 3R, Exhlbit 2R, ERM A.12(B)(A)(5).
- 4. Execution team members must be qualified to carry out their functions. Persons responsible for inserting the needles and establishing IV lines must be "trained to perform venipuncture and to administer intravenous injections." To meet qualifications, the persons who "connect, monitor, and maintain intravenous lines" must be "certified or licensed and have at least two (2) years professional experience" as one of the following: "medical or osteopathic physician, physician assistant, registered nurse, certified medical assistant, licensed practical

nurse, phiebotomist, paramedio, emergency medical technical, or military corpsman." Exhibit 2R, ERM A.12(B)(B)(1)(3).

- 5. The person responsible for mixing the drugs, preparing the syringes, and administering the injections must "demonstrate proficiency through relevant training and two years' experience in the administration of drugs by Intravenous injection; preparation of syringes for such administration; and mixing and preparing of drugs for such administration." Exhibit 2R, ERM A.12(B)(B)(2).
- 6. The two sets of chemicals are labeled and contained in numbered syringes. Exhibit 2R, ERM A.12(B)(C)(1).
- 7. The pentobarbital is mixed or prepared in accordance with USP 797 and is thereafter maintained in accordance with manufacturer's instructions. The pentobarbital must be mixed or prepared in bright, undimmed light. Exhibit 2R, ERM A.12(B)(D)(3); Exhibit 4R, at ¶6, 9, 11; Exhibit 5R, Deponent #1 Affidavit at ¶1, Exhibit 3R, Weber Protocol Affidavit, at ¶9.
- 8. DOC staff responsible for performing the execution is required to "drill at least weekly for six to eight weeks prior to the scheduled date of execution," as well as to perform "additional drills the week of the scheduled execution" at the Warden's direction. Exhibit 2R, ERM A.12(B)(D)(1).
- 9. At least one week prior to the execution, a medical provider examines the inmate and prepares a report "describing the inmate's physical condition and any medical condition of the inmate that may lead to potential problems establishing the IV site." Exhibit 2R, BRM A.12(B)(D)(2).
- 10. The protocol requires that every effort be made to ensure that no unnecessary pain is inflicted on the inmate. Exhibit 2R, ERM A.12(B)(D)(10).
- 11. The inmate is secured to the execution gurney in such a position that "at ail times" his "head and face are visible to the Warden and to those in the chemical room." Exhibit 2R, ERM A.i2(B)(D)(9).
- i2. The IV team shall establish "two independent IV lines to the inmate's veins. The IV team will establish IV lines only in peripheral veins located in the inmate's arms, hands, legs or feet, preferably one in each arm." Exhibit 2R, ERM A.12(B)(D)(8). The lines must be secured "in such a way as to leave them visible for monitoring."
- 13. If the IV team "cannot secure one (1) or more sites within one (1) hour," the execution will cease and a request shall be made that the execution be "scheduled for a later date during the week of the execution." Exhibit 2R, ERM A.12(B)(D)(11).
- i 4. The IV team will "start a sallne flow and a sufficient quantity of saline solution shall be injected to confirm that the IV lines have been properly inserted and are not obstructed." Exhibit 2R, ERM A.12(B)(D)(12).

- 15. The Warden stands in the execution chamber with the condemned and issues the order for the execution to proceed from there. Exhibit 2R, ERM A.12(B)(E)(2).
- 16. The executioner then administers syringe #1 containing 2.5 grams of pentobarbital in a 50 cc solution followed by syringe #2 containing 2.5 grams of pentobarbital in a 50 cc solution followed by syringe #3 containing 25 ml. of normal saline. Exhibit 2R, ERM A.12(B)(C)(3); ERM A.12(B)(H)(4)-(6).
- 17. The person responsible for pronouncing death monitors the IV lines and the inmate's response to the injection over the next 15 mlnutes. If the person responsible for pronouncing death is not able to do so after 15 minutes, "the Warden shall order a second set of chemicals to be administered." Exhibit 2R, ERM A.12(B)(H)(7).
- 18. Ten minutes after the second round of the drug is administered, "[t]he person responsible for pronouncing death shall enter the chamber and confirm death by checking the inmate's heartbeat, breathing, pulse, and pupils." Exhibit 2R, ERM A.12(B)(H)(10).

ERM A.12(B), compare with *Baze*, 553 U.S. at 44-46, 51, 55-56, 128 S.Ct. at 1528, 1531, 1533-34 and *Baze* Protocol, Exhibit 2R, ERM A.12(B).

A comparison of South Dakota's ERM A.12(B) protocol with the Baze decision reveals that South Dakota's lethal Injection protocol is "substantially similar" to, and in many respects more protective than Kentucky's as set forth in Baze and is therefore, constitutional on its face. Id. Petitioner has failed to show that the lethal injection protocol adopted by South Dakota "does not adequately guard against substantial risk of serious harm and suffering." Consequently, Rhines' argument set forth in Grounds 8, 11 and 12 that the lethal injection protocol adopted by South Dakota is unconstitutional and violates the 8th Amendment of the United States must fail.

C.

South Dakota Implements its Protocol in a Constitutional Manner

Rhine's also argues in Grounds 8, 11 and 12 of the habeas petition that the manner in which the lethal injection protocol is implemented is unconstitutional. More specifically, Rhines argues:

- 1) the execution team member known as Witness #3 does not have adequate training and experience to administer the lethal injection protocol; and
- 2) that execution team member Witness #3 does not have adequate experience and 1s not placed properly in the execution chamber, to recognize infiltration of the IV line which can result in reduced efficacy of the IV; and

- 3) that execution team member Witness #3 does not have proper experience and placement to ensure that the IV line is properly set at the outset, to monitor the IV lines in operation, or to place a central line in, if needed, and as called for under the protocol; and
- 4) that execution team member Witness #2 is charged with administering the lethal injection from a control room separated from the execution chamber; and
- 5) that execution team member Witness #2 has limited experience in administration of intravenous drugs; and
- 6) that execution team member Witness #2 lacks the training and experience to recognize if drugs are being taken up by the body in a proper fashion, to monitor the effect of the drugs, to recognize a proper administration rate or to understand the proper handling and administration of barbiturates like pentobarbital; and
 - 7) that the compounded drug in not reliably pure and potent; and
- 8) that the execution protocol does not guarantee adequate medical monitoring and does not require that individuals with adequate training or experience select the members of the team; and
- 9) that the protocol creates a system that impermissibly increases the risk of error or mishap which can result in a cruel and unusual execution.

See Petitioner's Pretrial Brief, p. 1-2. Each of these arguments will be addressed below.

l. Witness #3 IV Setter

Witness #3 (also referred to as Deponent #3) is the person responsible for setting the IV lines. ERM A.12(B)(3) describes the qualifications:

The person(s) selected by the Warden to insert the intravenous needles into the veins of the prisoner and connect, monitor, and maintain intravenous lines shall be certified or licensed and have at least two (2) years' professional experience as one of the following: medical or osteopathic physician, physician assistant, registered nurse, certified medical assistant, licensed practical nurse, phlebotomist, paramedic, emergency medical technician, or military corpsman.

These qualifications are consistent with, and even exceed, those set forth in Baze. Baze approved Kentucky's requirement that the IV setter have one year of professional experience as an EMT. Baze, 553 U.S. at 55, 128 S.Ct. at 1533. Kentucky met this requirement by employing an EMT who had "dally experience establishing IV lines for inmates," but neither the Kentucky protocol nor the Baze decision require "daily" experience.

Witness #3 who was part of the execution team for the Page, Robert and Moeller executions has a bachelor's degree in health education. Exhibit 1 at p. 8, line 12. Prior to obtaining his bachelor's degree, he received two years of paramedio training from an accredited institution. Exhibit 1 at p. 10, lines 3-11. That training included setting IV lines and administering IV drugs. Exhibit 1 at p. 10, line 15; p. 11, line 2. Witness #3 also worked for 15 years as a field supervisor and response medic on an ambulance. Exhibit I at p. 12, line 11. He then worked as an ambulance response medic before assuming supervisory duties. Exhibit I p. 12, line 19; p. 13, line 6. As part of his job, he is required to go on ambulance oalls and to maintain his paramedic certification. Exhibit I at p. 15, line 20.

Witness #3 has been a state certified paramedic for 29 years. Exhibit I at p. 14, line 20, p. 15, line 3, p. 106, line 4. During that time, he has set thousands of IV lines. Exhibit I at p. 106, line 4. He has also participated in numerous executions. Exhibit I at p. 44, line 14. Witness #3 testified that he has never had a complication arise during an execution. Exhibit I at p. 41, line 15. He is also trained to recognize signs of IV malfunctioning, such as swelling, leaking, or discoloration in the lines. Exhibit I at p. 77, line 7; p. 86, lines 10-21; p. 87, line 14-88, 25; p. 89, lines 15-25; p. 100, line 7. If an IV line was malfunctioning, Witness #3 testified that he would switch to the secondary line or start a new one. Exhibit I at p. 81, line 12; p.87, line 4. Witness #3 stated that in the executions he has participated in, the inmate very quickly becomes letharglo, goes unconscious, takes some labored respirations, then goes into respiratory arrest. Exhibit I at p. 45, line 21; p.101, line 24. Signs of respiratory arrest are no chest wall movement and no air way sounds. Exhibit I at p. 46, line 7.

Witness #3 clearly is qualified under ERM A.12(B)(3) and the Baze decision. Thus, Rhines' arguments that Witness #3 does not have adequate training and experience to administer the lethal injection protocol, does not have adequate experience to recognize infiltration of the IV line and that Witness #3 does not have proper experience and placement to ensure that the IV line is properly set at the outset, to monitor the IV lines in operation, or to place a central line if, if needed, and as called for under the protocol are all without merit.

ii, Witness #2 Drug Administer

Witness #2 is the person responsible for administering the injections. ERM A.12(B)(4) provides:

The person(s) selected by the Warden to administer the Injections shall demonstrate proficiency through relevant training and two years' experience in the administration of drugs by intravenous injection.

Again, as with Witness #3, the qualifications required of Witness #2 are consistent with Baze. Witness #2 testified that approximately 11 years ago, he began several months of training to administer lethal injection drugs. Exhibit H at p. 18, line 12; p. 19, line 8. Witness #2 received his training from a fellow correctional officer who was experienced in performing lethal injections. Exhibit H at p. 18, line 24. He observed several executions before participating in one. Exhibit H at p. 48, line 10. Since first participating in an execution more than ten years

ago, he has performed numerous executions without complication, including executions using pentobarbital. Exhibit H at p. 112, line 5; p.20, line 1; p. 36, line 8; p. 103, line 13.

When performing an execution, Witness #2 consults the protocol to learn the drugs which will be used and the concentration. Exhibit H at p. 29, line 22. He checks the drug labels and compares them with the protocol to ensure that he has the correct drugs. Exhibit H at p. 30, line 2; p. 30, line 19. He testified he would not administer a drug that was not in the protocol. Exhibit H at p. 77, line 10; p. 93, line 14. He inspects the condition of the drugs to be administered to make sure they have been stored properly (temperature, sealed, appearance) and also checks the seals on the syringes and IV tubes. Exhibit H at p. 25, line 7; p. 70, line 13; p. 71, line 14; p. 86, line 9. He is also trained to detect catheter site swelling and back pressure on syringes that would suggest poor flow. Exhibit H at p. 105, line 14; p. 106, line 5; p. 106, line 15; p. 107, line 4, 20.

Each time he has administered pentobarbital, Witness #2 has observed no signs that an immate experienced pain. Exhibit H at p. 83, line 17. He expects to participate in drills prior to performing an execution in South Dakota, Exhibit H at p. 83, line 17.

Witness #2 clearly is qualified under ERM A.12(B)(4) and the *Baze* decision. Rhines' arguments that execution team member Witness #2 is inexperienced and lacks training to recognize if drugs are being taken up by the body in a proper fashion, to monitor the effect of the drugs, to recognize a proper administration rate or to understand the proper handling and administration of barbiturates like pentobarbltal are unfounded.

Drug Compounding and Pharmacist Qualifications

Rhines argues that the compounded drug is not reliably pure and potent and therefore, the administration of the protocol poses a substantial risk of severe pain to the immate. He also argues that the pharmacist is incompetent to compound pentobarbital.

lii. Drug Compounding

At the December hearing, Rhines introduced the trial deposition of Dr. Mark Heath who testified that he was not a pharmaoist and that he did not have a high level of expertise in the mechanics of compounding. Trial Exhibit 9 at p. 14, lines 16-25; p. 15, lines 2-6. He stated that his opinions were related to the effect the drug would have if compounded incorrectly. Trial Exhibit 9 at p. 15, line 18. He went on to explain the areas where he believes errors could occur:

In a broad level I think there are two main areas that things can go wrong. One would be that there's a chemical accidentally or inadvertently introduced or formed in the material that could cause an undesired reaction or response, in other words, having an extra thing that sound [sic] shouldn't be there. And the other realm of problem is that should happen to degrade the drug, the pentobarbital that is there so that the amount there is inadequate.

Trial Exhibit 9 at p. 16, lines 3-12. When asked specifically about whether South Dakota's protocol for implementing lethal injection posed a "substantial risk of severe pain to an individual," Dr. Heath testified as follows:

But to clarify, when I talk about a substantial risk, it factored in several things, also the likelihood of it happening and also the gravity or severity of the event were it to occur and also how easily it is to obviate or eliminate the risk. So it's a factor of things, a mix of things. And in this instance, there's a risk of terrible thing [sic] happening. I think everybody would agree that nobody wants the prisoner to end up brain damaged. They wouldn't—probably wouldn't even execute them if that the outcome of an attempted execution. It's unlikely, but it's a terrible thing to have happen, and nothing is a hundred percent preventable. It's more preventable than it our ently is. In those terms I would say, it's a substantial risk—unlikely, severe, preventable.

The trial court has great discretion when it comes to the weight to be given to any witness' testimony. Dr. Heath's does not give any testimony regarding the actual compounding of the pentobarbital but rather focuses on the physiological effects that could occur if the drug was compounded incorrectly. But as is shown in his testimony quoted above, he testified that the risk was unlikely.

We have often said that fact finders are not required to accept an expert's opinion. As with all witnesses, it falls on the trier of fact to decide whether to believe all, part, or none of an expert's testimony. Sauer v. Tiffany Laundry & Dry Cleaners, 2001 SD 24, ¶14, 622 N.W.2d 741, 745 (citations omlitted); Lewton v. McCauley, 460 N.W.2d 728, 732 (S.D.1990) (citation omitted).

Great Western Bank v. H & E Enterprises, LLP, 2007 S.D. 38, 731 N.W.2d 207. This court does not find Dr. Heath's testimony on whether South Dakota's protocol for implementing lethal injection poses a "substantial risk of severe pain to an individual" to be relevant or useful.

Rhines also relies on the Declaration of Dr. Sarah Sellers who was an expert in the Donald Moeller case. Dr. Sellers is the executive director and consultant for Q-Vigilance, LLC. See Trial Exhibits 1 and 2. She stated that her work focuses on the public health risks of drug compounding. In her opinion, "this pentobarbital sodium API formulated under the indicated ...recipe cannot be used for compounding as doing so would result in risk of serious harm to Mr. Moeller." See Trial Exhibit 2, p. 15, § 5. She did not testify live at Rhines' hearing.

In contrast to Dr. Sellers' testimony, Respondent introduced the trial deposition of Dr. Mark Dershwitz. See Exhibit 26R0. Dr. Dershwitz has a bachelor's degree in chemistry, went to medical school at Northwestern University and also obtained a Ph.D. in pharmacology. Exhibit 26R at p.5, lines 22-24; p. 6, line 1. He did his residency in anesthesiology followed by a research fellowship and he worked in academic anethesiology since 1986 teaching at Massachusetts General Hospital, Harvard Medical School and Massachusetts Medical School. When asked about the practice of compounding drugs he testified as follows:

- Q: Were you aware of allegations in that case [Moeller] by Mr. Moeller's attorneys that compounding drugs was somehow a fringe occupation or an unusual practice in the practice of either pharmacy or medicine:
- A: I have heard that allegation, and at least with regard to anesthetic drugs and in my practice, that is just not true.
- Q: Insofar as you use compounded drugs in the practice of anesthesia, does the standard of care require you or any other anesthesiologists to trace the drug back to its origins of manufacture before you use it?
- A: No. I rely on the pharmacy to properly prepare the medication and label it before they send it to the hospital.
- Q: And the standard of care in the practice of anestheslology permits you to rely on a licensed pharmacist in good standing to provide you with an effective, potent and sterile drug?

A: Yes.

Q: And doctor, does the licensure of a drug supplier, whether they're either a manufacturer or merely a wholesaler, does the FDA licensure of that manufacturer, supplier provide you with sufficient assurance as an anesthesiologist that the drug that you are using on a patient is pure, effective and sterile?

A: Yes.

Exhibit 26R p. 16, lines 23-24-p.18, line 3. Dr. Dershwltz also opined that ERM A.12 (B) if performed as written would provide a painless and humane death. Exhibit 26R, p. 19, line 18. Like Dr. Heath's testimony, this Court does not find Dr. Seliers' testimony to be particularly reliable, relevant or useful. Rather, this Court finds Dr. Dershwitz's, who is an anesthesiologist and has a degree in pharmacology, to be more oredible and believable.

We give deference to circuit courts in determining the credibility of a witness. *Hubbard* v. City of Pierre, 2010 S.D. 55, ¶ 26, 784 N.W.2d 499, 511 (reiterating that "the credibility of the witnesses, the import to be accorded their testimony, and the weight of the evidence must be determined by the trial court, and we give due regard to the trial court's opportunity to observe the witnesses and examine the evidence.").

Nemec v. Goeman, 2012 S.D. 14, ¶24, 8i 0 N.W.2d 443, 449. Petitioner has not submitted any credible evidence that the compounded drug is not reliably pure and potent and poses a substantial risk of severe pain to the inmate. In fact, post-compounding testing of pentobarbital used in the Robert and Moeller executions proved that it was, in fact, compounded into a sterile, USP-compliant injectable solution. Exhibit 11R, at ¶V(G); Exhibit 4R, ¶¶9, 11, 12; Exhibit 3R, Weber/Moeller Affidavit at ¶6; Exhibit 5R, Deponent #1 Affidavit at ¶1. Therefore, Rhines'

argument that the compounding of pentobarbital results in a drug that is not reliably pure and potent must fail.

iv. Witness #1 Compounding Pharmacist

Rhines further argues that the pharmacist hired to compound the pentobarbital is incompetent. Again, the pharmacist employed for the Robert and Moeller executions meets and surpasses the minimum qualification thresholds set by *Baze*. Witness #1 has a bachelor's degree in pharmaceutical science. His education program required five years of undergraduate/graduate education. Exhibit G, p. 25-28. He also obtains approximately 20 hours a year in continuing education. Exhibit G, p. 25-28. He has specialized training in sterile compounding. Exhibit G, p. 86. He is licensed and registered with a Board of Pharmacy. His pharmacy ilcense and registration are current. Exhibit G, p. 21-22. He has never been investigated for improper compounding practices. Exhibit G, p. 38, 57. He has many years of experience as a working compounding pharmacist. Exhibit G, p. 22, 28. Witness #1 testified that compounded drugs do not require FDA approval like commercial drugs, Exhibit G, p. 41, 155. His pharmacy complies with USP guidelines for sterile compounding. Exhibit G, p. 86, 133-135, 152.

Witness #i is qualified under ERM A.12(B) and the Baze decision. Rhines' argument that the compounded drug is not reliably pure and potent and that the pharmacist is incompetent to compound pentobarbital are without merit.

Issue Two

Whether Petitioner's challenge to the lethal injection protocol adopted and implemented by the State of South Dakota as set forth in detail in Petitioner's Habeas Petition Grounds 8, 11 and 12, violates Article VI, §23 of the South Dakota Constitution prohibition against Cruel and Unusual Punishment?

Rhines' final argument is that the South Dakota State Constitution, Article VI, §23 provides greater protection than the United States Constitution. He further argues that the South Dakota Supreme Court has not addressed the issue of the manner of carrying out the death penalty. The South Dakota Constitution provides in Article VI, §23:

Excessive bail shall not be required, excessive fines imposed, nor cruel punishments inflicted.

While Rhines' argument focuses on the manner of carrying out the death penalty instead of whether the death penalty is unconstitutional, it is clear that the South Dakota Supreme Court has addressed the issue of the death penalty:

The South Dakota Constitution employs slightly different language in limiting the government's power to impose criminal penalties. Article VI, § 23, of the South Dakota Constitution states: "Excessive bail shall not be required, excessive fines imposed, nor cruel punishments inflicted." (Emphasis supplied.) Moeller argues that South Dakota's

constitutional prohibition on "cruel punishments" is a greater restriction on government power than its federal counterpart prohibiting "cruel and unusual punishments." He contends that the death penalty is invariably a "cruel punishment" in violation of this state's constitutional provision.

We note that a state constitution may be interpreted to provide an individual with greater protection than the federal constitution. State v. Opperman, 247 N.W.2d 673, 674 (S.D.1976). Additionally, "capital punishment is a matter of particular state interest or iooal concern and does not require a uniform national policy." State v. Ramseur, 106 N.J. 123, 524 A.2d 188, 209 (1987). See also James R. Acker & Elizabeth R. Walsh, Challenging the Death Penalty Under State Constitutions, 42 Vanderbilt LRev 1299 (1989).

Cognizant of this Court's independent authority to invalidate capital punlshment as a matter of state law, we begin our analysis by focusing on our own state's legal and historical precedent. Importantly, the very same constitutional document that prohibits the infliction of cruel punishment contains provisions implicitly recognizing the appropriateness of the death penalty. S.D. Const.Art. VI, § 8, states in part: "All persons shall be bailable by sufficient sureties, except for capital offenses when proof is evident or presumption great." (Emphasis supplied.) Article VI, § 2, provides in pertinent part: "No person shall be deprived of life ... without due process of law."

In addition to constitutional recognition, capital punishment has received legislative approval. The death penalty has been in effect for most of this state's history. Capital punishment existed from statehood until it was abolished in 1915. Opinion of the Judges, 83 S.D. 477, 479, 161 N.W.2d 706, 708 (1968). It was reinstated in 1939 and continued until 1972, when the United States Supreme Court effectively invalidated the then-existing capital sentencing scheme. Reed C. Richards & Stephen C. Hoffman, Death Among the Shifting Standards: Capital Punishment After Furman, 26 SDLRev 243 (Spring 1981). The legislature reenacted the death penalty in 1979, and it has remained in effect to the present. Richards & Hoffman, supra, at 243; 1979 S.D.Sess.L. ch. 160; 1981 S.D.Sess.L. ch. 186. Eleven individuals have been executed in South Dakota. Richards & Hoffman, supra, at 243.

State v. Moeller, 1996 S.D. 60, ¶ 97-101, 548 N.W.2d 465, 487. The South Dakota Supreme Court adopted the test set forth in Gregg v. Georgia, 428 U.S. 153, 96 S.Ct. 2909 (1976):

Historical and legislative acceptance of the death penalty is significant, but not dispositive. See *State v. Black*, 815 S.W.2d 166, 188 (Tenn. 1991). Constitutional analysis is dynamic and evolving; it cannot rest solely on historical underpinnings. We therefore adopt a three-part analytical framework derived from the United States Supreme Court's plurality decision in Gregg. To survive constitutional scrutiny, the death penalty: (1) must comport with contemporary standards of decency; (2) must not be excessive in light of the crime committed; and (3) must serve a legitimate penological objective. *Gregg*, 428 U.S. at 173–83, 96 S.Ct. at 2924–30, 49 L.Ed.2d at 874–80.

Moeller, p. 487-488, ¶102. The South Dakota Supreme Court went on to hold that South Dakota's capital punishment was constitutional and met the three part test set forth in Gregg.

We conclude that capital punishment meets all three of these requirements. To begin with, the death penalty comports with South Dakotans' contemporary standards of decency. Because the legislative branch is most representative of the views of the people. iegislative enactments are one of the most accurate indicators of societal mores. Gregg, 428 U.S. at 179-81, 96 S.Ct. at 2928-29, 49 L.Ed.2d at 878-79; Commonwealth v. Zettlemoyer, 500 Pa. 16, 454 A.2d 937, 968 (1982), cert. denied, 461 U.S. 970, 103 S.Ct. 2444, 77 L.Bd.2d 1327 (1983); Biack, 815 S.W.2d at 189; State v. Campbell, 103 Wash.2d 1, 691 P.2d 929, 948 (1984), cert. denied, 471 U.S. 1094, 105 S.Ct. 2169, 85 L.Ed.2d 526 (1985). The South Dakota Legislature reenacted the death penaity in 1979, and has made occasional amendments to the statutory scheme since that time. 1979 S.D.Sess.L. ch. 160; 1981 S.D.Sess.L. ch. 186; 1989 S.D.Sess.L. ch. 206; 1992 S.D.Sess.L. ch. 173; 1994 S.D.Sess.L. ch. 178; 1995 S.D.Sess.L. ch. 132. These statutes have remained undisturbed by the electorate, despite the power of the people to vote death penalty proponents out of office or to reject legislative enactments through a referendum election. This public acquiescence is strong evidence that capital punishment reflects the will of the people of South Dakota.

As noted in *Baze*, States have long explored using lethal injection as a manner of assuring humane method of execution. Baze, 553 U.S. 35, 42, 128 S.Ct. 1526-1527. At the time *Baze* was decided in 2008, 36 states had adopted lethal injection as the exclusive or primary means of implementing the death penalty. *Id.* It is also the method used by the Federal Government. *Id.* See 18 USC § 3591 et seq. (2000 ed. and Supp.V).

In South Dakota, the Supreme Court has found the death penalty to be Constitutional under both the United States Constitution and the South Dakota Constitution. In this Court's opinion, lethal injection is the most humane manner of implementing the death penalty and therefore, it is constitutional under the South Dakota Constitution.

III. CONCLUSION

For the reasons set forth above, the Court hereby denies Petitioner's Writ of Habeas in its entirety.

ORDER

ACCORDINGLY, it is hereby ORDERED that Petitioner's Writ of Habeas Corpus is denied and Respondent shall submit Findings of Fact and Conclusions of Law in accordance with this decision.

Dated this 2 day of February, 2013 at Rapid City, Pennington County, South Dakota.

BY THE COURT

Honorable Thomas L. Trimble

Circuit Judge, Seventh Judicial Circuit

Ranae Truman, Clerk of Courts

(SEAL)

Pennington County, SD FILED IN CIRCUIT COURT

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SUPREME COURT STATE OF SOUTH DAKOTA

IN THE SUPREME COURT

OF THE

JUL 1 7 2013

STATE OF SOUTH DAKOTA

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EXHIBIT

CHARLES RUSSELL RHINES, Petitioner, ORDER DENYING MOTION FOR . CERTIFICATE OF PROBABLE CAUSE

#26673

vs.

DOUGLAS WEBER, Warden, South Dakota State Penitentiary,

Respondent.

Petitioner having served and filed a motion for a certificate of probable cause to appeal from a final order entered by the trial court in the above-entitled habeas corpus proceeding on April 29, 2013, and respondent having served and filed a response thereto, and the Court having considered the motion and response and having determined that probable cause that an appealable issue exists has not been demonstrated, now, therefore, it is

ORDERED that the motion for a certificate of probable cause be and it is hereby denied. .

DATED at Pierre, South Dakota, this 17th day of July, 2013.

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BY THE COURT:

David Gilbertson, Chief Justice

Clefy of the Supreme Court

(Justices John K. Konenkamp and Lori S. Wilbur disqualified.)

PARTICIPATING: Chief Justice David Gilbertson and Justices Steven L. Zinter, Glen A. Severson, Circuit Court Judge Scott F. Myren and Retired Justice Robert A. Miller.

Filed: 10/28/2019 9:14 AM CST Minnehaha County, South Dakota 49CIV19-002940

UNITED STATES DISTRICT COURT FOR THE DISTRICT OF SOUTH DAKOTA WESTERN DIVISION

CHARLES RUSSELL RHINES,

CIV 00-5020-KES

Petitioner,

PETITIONER'S RESPONSE TO STATE'S MOTION FOR SUMMARY JUDGMENT

vs.

DARIN YOUNG, Warden, South Dakota State Penitentiary,

Respondent.

I. RESPONDENT'S MOTION FOR SUMMARY JUDGMENT DOES NOT CONFORM WITH LOCAL RULE 56.1A AND SHOULD BE DENIED.

Respondent has filed a motion for summary judgment pursuant to Federal Rule of Civil Procedure 56. Under Local Rule 56.1A, Respondent was required to submit with its motion "a separate, short, and concise statement of the material facts as to which the moving party contends there is no genuine issue to be tried. Each material fact will be presented in a separate numbered statement with an appropriate citation to the record in the case." Respondent has filed no such statement of allegedly undisputed material facts.

"The purpose of local rule like Local Rule 56.1A 'is to distill to a manageable volume the matters that must be reviewed by a court undertaking to decide whether a genuine issue of fact exists for trial." Sancom, Inc. v. Qwest Communications Corp., 2010 WL 299477, *1 (D.S.D. 2010) (unpublished). Thus,



Filed: 10/28/2019 9:14 AM CST Minnehaha County, South Dakota

49CIV19-002940

II. "Method of Execution Challenge"

Respondent devotes some fifty pages of his Brief in Support of Respondent's Motion for Summary Judgment to an issue which is not before the Court. (Doc. No. 215, pp. 111-161). As Respondent notes in the "Procedural History" section of Doc. No. 215, after being denied relief on the grounds raised in his initial state habeas corpus petition, Mr. Rhines "filed his petition herein in which he alleged new unexhausted grounds for habeas corpus relief in addition to all of the claims he had exhausted in the state courts." (Id. at 1-2. See Doc. No. 73 (First Amended Petition)). After extended briefing by the parties, the Court entered its Order (Doc. No. 116) denying without prejudice Respondents' motion to dismiss (Doc. No. 77); finding that Grounds Two(A), Three, Four and Ten of the First Amended Petition had been exhausted and would be considered on their merits; finding that Grounds Two(B), Six(E), Nine(B), (H), (I) and (J), Twelve and Thirteen were unexhausted; and staying the petition pending exhausting state court remedies of those claims. (Doc. No. 116 at 9-10). That Order was appealed to the United States Court of Appeals for the Eighth Circuit, which reversed and remanded. Rhines v. Weber, 346 F.3d 799 (8th Cir. 2003). The United States Supreme Court granted certiorari "to resolve a split in the Circuits regarding the

Charles Russell Rhines, vs. Darin Young, Warden CIV 00-5020-KES Petitioner's Response to State's Motion for Summary Judgment Page 4 June 2, 2014 District Court's 'stay-and-abeyance' procedure," *Rhines v. Weber*, 544 U.S. 269, 273 (2005), vacated the Eighth Circuit's judgment and remanded the case to that court to consider whether this Court's grant of a stay constituted an abuse of discretion. *Id.* at 279. The Eighth Circuit remanded the case to this Court to determine whether there was good cause for failure to exhaust the claims in state court, whether any unexhausted claims were plainly meritless and whether Mr. Rhines had engaged in "abusive litigation tactics or intentional delay." *Rhines v. Weber*, 409 F.3d 982 (8th Cir. 2005).

After further briefing and argument by the parties, this Court entered its Order Granting Motion for Stay and Abeyance (Doc. No. 150), finding that Mr. Rhines had good cause for failing to exhaust the claims, that the claims – with the exception of claim Thirteen, which Mr. Rhines subsequently withdrew and dismissed (see Doc. No. 152) – were not plainly meritless, and that Mr. Rhines had not engaged in intentionally dilatory litigation tactics. Therefore, the Court stayed the petition for habeas corpus pending exhaustion of Grounds Two(B), Six(E), Nine(B), (H), (I), (J), and Twelve in state court. (Doc. No. 150 at 19).

None of the claims in the original or the First Amended Petition for Writ of Habeas Corpus, exhausted or unexhausted, concerned the manner of execution.

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Therefore the issue of manner of execution, which was included in the latest litigation in the state court, and which was discussed at such length in Respondent's brief, is not before this Court, and this Court cannot issue any sort of judgment concerning that issue.

III. Ground One: Admission of Petitioner's Confession

A. Insufficiency of Miranda Warnings.

In Ground One Mr. Rhines contends that his multiple confessions were admitted in violation of the Fifth and Fourteenth Amendments. Specifically Mr. Rhines alleges that law enforcement failed to give adequate warnings pursuant to *Miranda v. Arizona*, 384 U.S. 436 (1966) and its progeny. *Miranda* requires that before a person in custody may be subjected to interrogation,

[h]e must be warned prior to any questioning that he has the right to remain silent, that anything he says can be used against him in a court of law, that he has the right to the presence of an attorney, and that if he cannot afford an attorney one will be appointed for him prior to any questioning if he so desires. Opportunity to exercise these rights must be afforded to him throughout the interrogation.

384 U.S. at 479. After such warning have been given, the individual may waive these rights. *Id.* "But unless and until such warnings and waiver are demonstrated

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1

AFFIDAVIT OF MARK DERSHWITZ, M.D., Ph.D.

COMMONWEALTH OF MASSACHUSETTS)
COUNTY OF WORCESTER

I, Dr. Mark Dershwitz, of lawful age, being first duly sworn upon onth, state:

- I have been asked to prepare this expert report by attorneys for the defense in the
 case of Moeller v Weber. I have previously submitted affidavits in this case on
 31 May 2011 and 12 September 2011.
- I am a medical doctor with a Ph. D. in Pharmacology. A true and accurate copy of my curriculum vitae is attached as Exhibit A. I am licensed to practice medicine in the states of Massachusetts and Maine. I am currently an ariesthesiologist at the University of Massachusetts and I am certified by the American Board of Anesthesiology. I am currently Professor of Anesthesiology and Biochemistry & Molecular Pharmacology at the University of Massachusetts.
- I have done extensive research and written numerous review articles and research papers on the use of anesthetics and I regularly practice medicine in that capacity. My research includes the study of pharmacodynamics and the pharmacokinetics of drugs. Pharmacokinetics is the study of the time course of a drug, while pharmacodynamics refers to the effects of a drug. Prior to my current appointment at the University of Massachusetts, I was an Instructor,



いつさる

Assistant Professor and Associate Professor at Harvard Medical School

- 4. I have testified as an expert witness concerning the pharmacokinetics and the pharmacodynamics of anesthetic drugs and other medications. I have testified in court as an expert witness on twenty-four occasions. I have given fifty-three depositions as an expert witness. The list of cases in which I have testified is attached as Exhibit B.
- I have reviewed the protocols for lethal injection used in the states of Arkansas, Alabama, Arizona, California, Delaware, Florida, Georgia, Kentucky, Maryland, Missouri, Montana, North Carolina, Ohio, Oklahoma, South Carolina, South Dakota, Texas Virginia, and Washington and by the federal government. Most of the states (and the federal government) employ similar three-drug protocols for carrying out lethal injection. While the protocols and the jurisdictions differ in terms of the doses and identities of the three medications used, each of these protocols, when implemented as written, will render an immate unconscious quickly and cause the inmate's rapid and painless death.
- Only drug, in the lethal injection protocol. Exhibit C is a copy of the analysis of the lot of pentobarbital vials that the State of South Dakota intends to the State of South Dakota intends to the State of South Dakota intends to the protocol. I have been informed by attorneys for the defense in this case that the State of South Dakota intends to use pentobarbital as the first drug, or as the only drug, in the lethal injection protocol. Exhibit C is a copy of the analysis of the lot of pentobarbital vials that the State of South Dakota intends to use for lethal injection. This analysis demonstrates that the pentobarbital meets the

standards set forth by the United States Pharmacopeial Convention.

- 7. The document, "BRM A.12(B)" states that medications will be administered as follows in the three-drug protocol:
 - a. Two intravenous catheters will be inserted.
 - b. Syringes 1 and 2, each containing 2.5 grams of pentobarbital in a volume of 50 mL, for a total dose of 5 grams, will be injected.
 - c. Syringe #3 containing 25 mL of saline solution will be injected to flush the intravenous line.
 - d. The warden will confirm that the immate is unconscious.
 - e. Syringe 4 containing 100 mg of pancuronium bromide in a volume of 50 mL will be injected.
 - f. Syringe #5 containing 25 mL of saline solution will be injected to flush the intravenous line.
 - g. Syringes 6 and 7, each containing 120 mEq of potassium chloride in a volume of 60 mL, for a total dose of 240 mEq, will be injected.
- 8. It is expected that a 5-gram dose of peritobarbital will cause the immate's electroencephalogram (HEG or recording of brain waves) to become flat. This is the
 deepest level of anesthesia that can be ineasured with the brain monitors
 available today, and is much deeper than barbiturate come that is in turn deeper
 than surgical anesthesia.
- 9. Pentobarbital is commonly used to produce barbiturate coma in the attempt to decrease the degree of brain damage following head trauma, stroke, and other causes of brain damage. It is also used to prevent brain damage during surgical

procedures in which there will be the planned and deliberate interruption of blood flow to the brain. A typical desing regimen for the institution and maintenance of barbiturate coma is as follows:

- a. Pentobarbital, 10 mg/kg, (or 800 mg in an average 80-kg adult) is given by intravenous infusion over 30 minutes.
- b. A continuous infusion of pentobarbital at a rate of 5 mg/kg/hr (or 400 mg/hr in an average 80-kg adult) is given for 3 hr.
- The patient's EEG is monitored for the presence of "burst suppression."

 The appearance of "burst suppression" on the EEG means that there are intermittent periods of electrical inactivity (i.e., flat-line).
- d. The pentobarhital infusion rate is fhen adjusted between 1. 5 mg/kg/hr (or 80 400 mg/hr in an average 80-kg adult) to maintain the presence of burst suppression on the EEG.
- e. Because this dose of pentobarbital results in apnea, i.e., the cessation of breathing, the patient is mechanically ventilated.
- 10. Using the above regimen in an 80-kg adult, it would take between 11 41 hr to achieve the administration of 5,000 mg of pentobarbital. There are two reasons that pentobarbital is not given more rapidly or at a higher close to induce barbiturate coma. First, the close regimen described in Paragraph 8 is adequate to induce and maintain burst suppression on the EEG. Second, more rapid administration of pentobarbital causes severe and dangerous decreases in blood pressure that might be fatal to the patient.
- 11. The use of pentobarbital in barbiturate coma has been part of medical practice

from the mid-1970's until the present day. It is neither a novel nor an archaic medical therapy. I have attached two journal articles, one from 1979 and the other from 2010, as Exhibits D and E, respectively, to demonstrate this point.

- The end-point of burst suppression on the HEG is a deeper level of general anesthesia than is needed for any surgical procedure. Therefore, since the protocol for lethal injection described in Paragraph 7 describes a dose of pentobarbital far in excess of that used to induce and maintain barbiturate coma, and since this is a depth of anesthesia far greater than that needed for any surgical procedure, once 5,000 mg of pentobarbital have been administered intravenously to an inmate, there is to a reasonable degree of medical certainty, an exceedingly remote chance that the inmate could experience the effects of the subsequently administered pancuronium bromide or potassium chloride.
- breathing. In addition, a dose of 5,000 mg of pentobarbital will cause the blood pressure to decrease to such a degree that perfusion of blood to organs will cease or decline such that it is inadequate to sustain life. Thus, although the subsequent administration of pancuronium bromide, a paralytic agent, would have the effect of paralyzing the person and preventing him or her from being able to breathe, virtually every person given 5,000 mg of pentobarbital will have stopped breathing prior to the administration of pancuronium bromide. Thus, even in the absence of the administration of pancuronium bromide and potassium chloride, the administration of 5,000 mg of pentobarbital by itself would cause death in almost everyone.

- 14. Pentobarbital is the most common agent used in the cuttanasia of pet cats and dogs by veterinarisms. The usual dose is 40 mg/kg. The use of a close of 5,000 mg in an 80-kg immate as part of the lethal injection protocol is greater than a 50% increase as compared to the dose used in animal cuthanasia.
- 15. Therefore, it is my opinion to a reasonable degree of medical certainty that there is an exceedingly remote chance that a condemned inmate to whom 5,000 mg of pentobarbital is properly administered pursuant to the lethal injection protocol of the State of South Dakota would experience any pain and suffering associated with the administration of lethal doses of paneuronium bromide and potassium chloride.
- An impate sentenced to death in South Dakota may under some circumstances elect the two-drug protocol. The two-drug protocol is identical to the procedure described in Paragraph 7 except that the syringes of potassium chloride are not injected. It is my opinion to a reasonable degree of medical certainty that there is an exceedingly remote chance that a condemned immate to whom 5,000 mg of pentobarbital is properly administered pursuant to the lethal injection protocol of the State of South Dakota would experience any pain and suffering associated with the administration of a lethal dose of pancurentum bromide.
- An immate sentenced to death in South Dakota may under some circumstances elect the one-drug protocol. In this protocol, the immate is administered a 5-gram dose of pentobarbital alone. It is my opinion to a reasonable degree of medical certainty that there is an exceedingly remote chance that a condemned immate to whom 5,000 mg of pentobarbital is properly administered pursuant to the lethal

injection protocol of the State of South Dakota would experience any pain and suffering.

18. I am being compensated at the rate of \$450 per hour.

FURTHER APPLANT SAIETH NOT.

Dated this 9th day of February, 2012.

Mark Dershwitz, M.D., Ph.D.

Subscribed and sworn to before me this 9th day of February, 2012.

Notary Public

LIBA L. NICHOLSON
Motory Public

Convenience of Medical Advisor

Environmental of Medical Advisor

Francisco Supplies

Francisco B. 2015

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Mark Heath, M.D.

New York, NY

December 1, 2012

Page 1 1 Mark Heath, M.D. 2 STATE OF SOUTH DAKOTA 3 COUNTY OF PENNINGTON IN CIRCUIT COURT SEVENTH JUDICIAL CIRCUIT 5 6 CIV. 02-924 8 9 CHARLES RUSSELL RHINES, 10 Petitioner, 11 VS. DOUGLAS WEBER, Warden, South 12 13 Dakota State Penitentiary, 14 Respondent. 15 16 17 18 Videotaped Deposition Transcript of MARK HEATH, M.D., in the above-entitled matter, as 19 taken by and before, DEBRA GOODFRIEND, a Certified 20 21 Shorthand Reporter and Notary Public for the State of New York, held at the offices of Federal Defenders of 22 New York, 52 Duane Street, New York, New York, on 23 December 1, 2012, commencing at 9:45 a.m. 24 25

> Aiderson Reporting Company 1-800-FOR-DEPO



1103

New York, NY

December I, 2012

	Pag	ge 2	Page
. 1	Mark Heath, M.D.		1 Mark Heath, M.D.
2	APPBARANCES:		2 THE VIDEOGRAPHER: This is DVD No. 1
3			3 of the video deposition of Dr. Mark Heath in the
4	FEDERAL PUBLIC DEFENDER DISTRICT	[4 matter, Rhines vs. Weber. This deposition is being
5	OF SOUTH DAKOTA AND NORTH DAKOTA	x	5 held at 52 Duane Street, New York, New York on
6	ATTORNEYS FOR PETITIONER	- 1	6 December 1st, 2012 at approximately 9:53 a.m.
7	101 South Pierre Street, 3rd Floor		7 My name is Marcelo Rivera from
8	Pierre, South Dakota 57501	1	8 Alderson Court Reporter.
9	(605)224-0009		9 Will the present coursel please
٥	BY: NEIL FULTON, ESQ.	1	
1	B1. RED1 ODION, ESQ.	li.	
2		1	
3		12:	
	CONTRACTOR CONTRACTOR ASSESSED		
4	STATE OF SOUTH DAKOTA]1:	
5	OFFICE OF ATTORNEY CENERAL	115	
6	ATTORNEYS FOR RESPONDENT	116	
7	1302 East Highway 14, Suite I	17	
8	Pierre, South Dakofa 57501-8501	18	
9	BY: PAUL S. SWEDLUND, ESQ.	129	
9	(605) 773-3215	20	
į.	paul.swedlund@state.ed.us .	21	
2		22	
3	ALSO PRESENT:	23	
į	Marcelo Rivera, Videographer	24	
i		25	O. And Dr. Heath, I'm going to refer to you.
	Page	3	Page
	Mark Hesth, M.D.	1	Mark Heath, M.D.
!		2	as Dr. Heath ioday, and not be so informal as to call
	INDEX	3	you Mark. Can you tell us how you're employed?
		4	
	WITNESS PAGE	5	Columbia University Medical Center in New York City.
		6	Q. I want to go back through your education
	MARK HEATH, M.D.	7	just a little bit. Perhaps the easiest way to do is
	By Mr. Fulton 4	8	that you have in front of you something marked Exhibit
	By Mr. Swedlund 6.3	9	3. What is that document?
		10	A. It's my curriculum viteo,
		11	Q. Can you tell us the highlights of your
	M 8 2 2 4 7 10 3 mm -	12	professional education. We don't need to go all the
	EXHIBITS	13	way back to high school, but where you did your
	Ar. w. bbs. a.s. d. des. se.	14	medical editorion and residency?
1	(No Exhibits Marked By Reporter.)	15	A. I did my medical education at University
		16	of North Caroline in Chapel Hill. Alter that I did a
		17	one-year internship in internal medicine in Washington
	•	18	D.C., and then I did an internship in anesthesiology
	•	19	at Columbia University Medical Center in New York
		20	City. I then did a fellowship that was a mixture of
		21	research and specializing in cardino anesthesia for
		22	about a year-and-a-half, again at Columbia. And then
		100	
		23	I joined the faculty of Columbia University as an
		23 24 25	i joined the faculty of Columbia University as an anesthesiologist and a stuff member of the hospital. Q. When was that, that you joined the

2 (Pages 2 to 5)

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New York, NY

December 1,2012

ŀ	•	e 18	Page 2
	 Mark Heath, M.D. 		1 Mark Heath, M.D.
	2 A. Correci,		2 will be a consaminant introduced, you're just saying
	 Q. So for one way to think about it, you 		3 it's a potential that exists?
	4 could have a contaminant that made the process		4 A Yes
	unintendedly painful or improper on the way to de	ath	5 Q. And It's a potential that can make the
	G of something that happens after an interrupted	Į	6 execution less humanes
]		İ	7 A. Yes.
8	Z-130	. }	8 Q. Lefs talk, specifically, if we can,
9	THE PROPERTY OF THE PROPERTY O	.	9 about the drug pentobarbital. Is that a drug that
10	A Classes of the Appropriate of the Cold (1971)	nt :	10 you're familiar with?
11	The state of the s	j:	11 A. Yes.
12		1	12 Q. Tell us a little bit about what it is?
13	E C		13 A. R's a drug in a class called
14		- 1	4 barbiturates or barbiturates. The spelling is the
15 16	A. Correct, I think that's correct.		5 same but people pronounce it differently.
.o .7	That's up to you, but yes.		6 Barbinardes are drugs that when they reach the brain
. /	Q. But you have in your practice		? cause depression of the brain, and if they're given in
9	administered compounded drugs?	1	8 sufficient dose will cause drowshiess and then
Q	A. I've administered drugs where I've mixed]3.	
1	the drug myself and I've used drugs that have been	2	
2	compounded by the pharmucy at the hospital.	[2:	1 your practice?
3	Q. Okay. And to sort of address Paul's	2;	• • • •
? 1	question, I mean, you have some understanding of hor		
1 5	the compounding process works? A. Yes.	24	
<u> </u>		25	A. If snot used very often at all in
	Pege 1	1.9.	Page 21
į	Mark Heath, M.D.	1	Mark Heath, M.D.
2	Q. Tell us a little bit about points in tho	2	anesthesiology. The main use would be in a clinical
}	process where based on your experience you see the	3	situation where there was a need to greatly reduce the
	potential for contaminants potentially to be	4	activity of the brain because of their the horin has
	infroduced?	5	received trauma or is going to be subjected to believe
	A. Well, it can happen anywhere from the	6	as a result of a surgical procedure,
	assembly of the ingredients for the actual chemical, the turning or synthesis that those ingredients into	7.	
	the charmical that is going to be the drug, the	8	compare the speed, the nature in which it operates
	shipping, handling, storage of that chemical, then the	9 10	with other barbinurates a linie bit?
	preparation of that chemical, that chemical which is	11	A. Yes. Barbinaries are typically divided
	going to be the drug, into the actual package drug	12	into classes, depending on how rapidly they exert their action and for how long they exert their action.
	form, and then the transport of that to the place of	13	So the classes, there are different ways that people
3	storage or place of use. Problems can hannen during	14	do its but typically they talk about ultra short
	storage, after it's removed from storage. Problems	15	With first acting barbiturates and then short-project
- (An happen during the drawing up of the date into a	16	Darbiturales, and medium-acting barbiturary and
•	Tyrings at its point of use. Basically anywhere in	1.7	long-acting barbiturates. And rentalparhital to
S	he full chain from the precursor molecules involved	18	typically put into the short or medium-setting
1	n the synthesis of the chamical throughout the	19	categories depending on which authoris referring to
2	process of turning that chemical into an actual drug	20	vita.
ž ž	Till the handling of the days in some that De-	21	. Q. And being a short or medium-noting
i i p	nd the handling of the drug in preparation for		
i i p	dninistration.	22	harbiturate, what does that mean in terms that a
i p	dministration. Q. To be fair in drawing the boundary about	22 23	layperson can understand in terms of its effect on the
i p	dninistration.	22	harbiturate, what does that mean in terms that a layperson can understand in terms of its effect on the person that's being anesthetized? A. Ill'itst start by comparing uline short

6 (Pages 18 to 21)

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December 1, 2012

	Page 22		Page 24
1	Mark Heath, M.D.	1	Mark Heath, M.D.
2	and ultra-fast acting barbiturates which will enter	2	activity, but at that point the person would be
3	the balln very quickly in a matter of tenths of	3	legally dead.
	seconds, and will also leave the brain very quickly	4.	O. In our discussion of compounding you
4	and be taken up by other parts of the body, the fat	5	mentioned the potential form drug to be less
5	areas of the body. By contrast - and those drugs	6	officacious than it should. Now, based on your review
6	would be the class of drug would be thiopental, for	7	of the protocol if a bow would the administration
7	WOULD DO THE CHESS OF GIVE WHICH IS SUCKED AND AND ADDRESS OF	g	of a less than appropriately efficacious amount of
В	example, and another would be a drug called	9	pentobarbital manifest to result in an inhumane
9	methohexital. By contrast, pentubarbital is slower to	10	execution/
10	take offect and lasts for longer. So instead of	11	A. My concern would he that the prisoner
11	wearing off in a matter of a couple of minutes,	12	would be administered a dose that would impair
12	pentobarbital would typically last for hours.		respiration or temporarily prevent respiration, but it
.3	Q. You have reviewed the protocol and have	13	does sub-lefini and did not effectively kill the
.4	an understanding at least a paper level of how the	14	person. And in that instance, which happens in
5	State of South Dalcom intends to use pentobarbital as	15	barbiturate overdose, when people try to commit
6	. a lethal injection drug, yes?	16	DRIORUMA OVERGOES, WIEH Propietry to contains
7	A. Yes.	17	suicide or accidentally ingest it or ingestion
8	Q. And tell us a little bit based on your	18	burbingeres for illicit recreational purposes, the
ġ	training and experience how that drug would operate in	19	person can spend a period of time breathing
O	an execution carried forward with no outside problems,	20	inadequately or not at all, but it is not such a time
1	it goes according to plan, so to speak?	21	that they actually die from that. When the drug wears
2	A. Just to be clear, I've never seen it	22	off the person can be left with a brain injury or
3	used in an execution, so I'm a linic hit speculating.	23	brain damage or also injury to other organs in the
4	But I have read about executions where it's been used	24	hody.
5	and I can speculate based on my knowledge about	25_	Q. So you would end up in a situation where
	Page 23		Page 2
4	Mark Fleath, M.D.	1	Mark Heath, M.D.
1 2	harbinurates and pentobarbiral and human physiology	2	a person had received too little or not effective
3	and drug interactions in generals. If the intended	Э	errough pentobarbital to actually complete the process
4	dose of percobarbital were to be successfully	4	of killing them, but too much to simply anesthetize
5	delivered into the olimitation of a person and carried	5	them so they can be simply brought back of the
6	to their brain in this close if would cause complete	6	anosthetized state?
7	depression of all the brain activity such that there	7	A. I'm sorry, can you say that again. Not
ė	would be no electrical activity in the brain	B	enough **
9	wherevers The electrical activity of the brain	9	Q. You've given too much to them to just
ō	sustains many important bodily functions, but in	10	aneathotize them and not enough to kill them?
1	particular itsustained respiration, the rhythmic	11	A. You've given them an amount that would-
2	breathing that we do all the time and when	12	be anesthetic, they probably would be unconsolous and
3	nemoharbitul or any barblurate Would stop all	13	not feel anything. They would be not breaming very
4	'activity in the brain it without stop what wo call	14	much, very low amount of respiration. They would be
5	the resultatory drive. It would stop breathing from	15	in that state for a period of timo until the drug wore
6	occurring. When an animal of person doesn't breathe	16	off. And when the drug wore off they would be left with brain lujury.
	then after a period of several minutes the brain	17	Q. If I can have you look at page 4 of your
7		18 19	September 13th, 2012 declaration. It's Exhibit 6.
8	210 12 (O BO2001 DIVINA TOTAL INC. OF COR		Solventon their east operations are planted
8 9.	it starts to sustain permanent death of the neurons,		Van manifor in residents of that as a filedical
8 9 - 0	it starts to sustain permanent death of the neurons, which are the cells that carry information to the	20	You mention in panagraph 60, that as a medical practitioner, you would be quote highly refuctors.
8 9 - 0	it starts to sustain permanent death of the neurons, which are the cells that carry information to the brain. At some point after a number of minutes the	20 21.	practitioner, you would be, quote, highly reluctual,
8 9 - 0 1 2	it starts to sustain permanent death of the neurons, which are the cells that carry information to the brain. At some point after a number of minutes the neurons in the brain will be investibly damaged	20 21. 22	practitioner, you would be, quote, highly reluctual, close quote, to use an anesthetic agent that would be
7 8 9 0 1 2 3	it starts to sustain permanent death of the neurons, which are the cells that carry information to the brain. At some point after a number of minutes the neurons in the brain will be investibly damaged and/or dead, the condition that we call brain death,	20 21 22 23	practitioner, you would be, quote, highly refuction, close quote, to use an anosthetic agent that would be handled and compounded in the manner described and
8 9 - 0 1 2	it starts to sustain permanent death of the neurons, which are the cells that carry information to the brain. At some point after a number of minutes the neurons in the brain will be inveversibly damaged and/or dead, the condition that we call brain death, and that is legally a type of death, a form of death.	20 21. 22	practitioner, you would be, quote, highly reluctant, close quote, to use an anesthetic agent that would be

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New York, NY

December 1, 2012

	e 62						1	age	ŧ
1 Mark Heath, M.D.		1			Mark Heatl	MD			
2 issertoday, do you hold those to a reasonable degr	ree	2). S	gring mil of		m w Assilia .		
3 of medical certainty?		3		< ora#h	at you gave,	the Erman	ont residing	ny	
4 A. Yes, I'do.		4	Drug	435 U	ali testifying	nite (2AM) A	i duzing statu	260	
5 Q. And you've had an opportunity to revie	ur	5	A.				97		
before today Exhibits 4. 5 and 6 which are your	•	6 .			Vhat state is				
declarations in the Moeller litigation?		7	Q	-	hat's in Mar	ylano.			
B A Yes.		8	A		kay.				
Q. The opinions expressed in there are also	j		Q.	Y	oti were ask	ed; do you d	disapprove	of'	
o to a reasonable degree of medical certainty?	ļ	10	execut	uons (n general. A	and your are	swer was; 3	35.	
A. The medical opinions are, yes,			at t	Qu	estion. So al	I manner of	executions		
Q. Although we've not gone through them at		11 :	wat her	ive tal	cen place leg	ally in the L	Juited State	\$	
loday, based on your review you still hold the		12	you au		ove of?				
opinions expressed in Exhibits 4, 5 and 67		13	l. d	Ar)(lyousay: T	un outh din	alification		
A. Yeah. Except where I provided more		14	is that I	l thíni	there's theo	relical exiga	ent		
information and changed it as to the more recent		L5 0	circums	stance	s where I th	ink it might	be necessa	ly to	
affidavits.		16 6	execute	SOITE	body because	se lite altern	ative would	be	
MR FULTON: Doctor, those are the		.7 v	worse,	But	outling that t	icoretical s	iltration		
questions I have. Mr. Swedlund is going to have		.0 a	isido, y	es, it.	s correct tha	t I at the pre	esent time		
some questions he's going to ask you, too.		.9 d	io pota	pprot	re of elected	executions	of people.		
MR. SWEDLUND: Could we take a break		0			at still your	position to	day?		
THE IMPROVE AN THE TREE BOTTERS	1-								
THE VIDEOGRAPHER: The time is	2.		Q.	Ori	ravo you che	inged it?			
11:19 a.m. and we're going off the record.	2;		A.	l'in	sure it's, it's	a fluid thing	g but L		
(There was a break in the	24	4 99	gree wi	ith the	ise statemen	ts.			
proceedings):	21	<u>. </u>	Q	_Aga	in, in the Ris	era case do	.vou.ncail		
Page	63							re 6	5
					•			, - 0	
Mark Fleath, M.D.	1			Ma	rk Heath. M.	D.		,	-
The time is 11:37a.m. and we're lack	1 2		stlfyina	Ma in the	rk Heuth, M. re case?	D.		, - 0	•
The time is 11:37a.m. and were back on the record.	1 2 3	tes	stifying A.	in the	te case?			, - 0	•
The time is 11:37a.m. and we're back on the record. EXAMINATION BY MR. STATE LUND:	2	tes	A.	in the	nt case? have to tell n			,	
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Alderson Reporting Company 1-800-FOR-DEPO

New York, NY

December 1, 2012

Γ.			
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•	1 Mark Heath, M.D.		1 Mark Heath, M.D.
- 1	A. I'm not sure moral is the right word for		2 of it in terms of assessing - of preparing the drugs,
3	3 It. I don't think that as it's currently precified in	l	3 administering the drugs, setting up the equipment,
4	the U.S. or probably anywhere else in the world,		4 monitoring the effects of the drugs and being able to
5	although I don't really know about its practice	- 1	
6	elsowhere, I think it's a mistake.		ter
1 7		- 1	6 think they should be held to that standard.
8	Acceptable lather lather the section of the section	ŀ	 Q. Because you said in some of your answers
وا	a browner for Helitidit Central		8 that, for example, the pusher and I don't mean to use
	S come and a react to bridge dotte find it	- 1	9 those terms to denignate what he does and I use them
10	Is that still true today?	11	O because they bring clarify to the role that the person
11	A. Yes, South Dakota is better then the	j1	I plays, but in reference to the pusher you stated that
12	great majority of other furisdictions, but it still	1	2 this person wouldn't have qualifications to be hired
13	has flaws and they're correctable and they should be		3 in a clinical setting. Do you recall saying that?
14	corrected,		4 A. I don't specifically recall it, but I
15	Q. But you have to this day you have never	1	
16	found a lathal injection protocol that you considered	la la	
17	seceptable?	1.	
18	A. Not for humans. For veterlinny		
19	curhanasia, yes, ind for lethel injection as has been	11	
20	carried out for legal proceedings, no.	. 1	
21	Q. Whether your objection to the death	20	
22		23	
23	penalty is moral or merely to the mechanics of it, do	22	
	your opinions about the death penalty in any way color	23	legal decisions?
24	your objectivity about your review of protocols?	24	
25	A. I do my best to so beyond my blue that	25	A. Not specifically, Lundomand the
]	Page 6	7	Page 69
1	Mark Fleath, M.D.	1	
	I might have but the definition of subconscious blas	2	Mark Heath, M.D.
3	is one can't know when one has one. So I my to	3	general framework that you're talking about, I know
4	climinate conscious bias as much as possible, but I	4	legislatively some states have explicitly curved out
5	can't speak to subconscious bias, because anybody who	5	the activity as being deemed a medical procedure. And
6	claims they can doesn't understand what that is,	6	I believe, although I can't think of any specific
7	Q. So some bias may enter into your	7	examples of couris where they do not view it as a
8 '	cvaluation of a projectol or how it's used?	8	medical procedure, but it's also my view that whether
9	A. Yes, subconscious bias certainly could	9	or not something is a medical procedure exists both as
10 (be there.	10	a legal point of view and also as a medical point of view. And this is an example of using medical
£1	Q. Doctor, if I understand your position on	11	treat - Later and 12 tot examine of result medical
	this as well from your previous testimony, it's your	12	procedures to carry out in ideally or the intention of
13 E	citef that a surgicul standard of care applies to a	13	a cuthanasia, which is a medical procedure.
14	cities injection proceeding whether it's one drug or	114	Q. So to the extent the courts have said
5 tl	hico drugs?	15	that optionum medical standards do not need to apply in
6	A. I wouldn't use the word surgical	16	a lethal injection setting, you would disagree with
	landard of care. Clinical standard of care should	17	those opinions?
8 E	pply If one wants to have the same reliability as a	IB	A. I'm not sure that courts say that
	linical procedure,	1.9	optimum medical standards don't need to apply. You
0	Q. Let me ask it a different way. Do you	20	have to give me a specific example.
	elieve that the persons who perform a lethal	21	Q. Well, that -
	jection should be held in the same standards as	22	A. Optimum medical standards don't apply
		23	anywhere. They don't apply in medicine. It's always below optimum in medicine.
		43	ociow opumum in meticine.
3 pe		24	O Bush di anti ad
3 pe	om?	24 25	Q. But to the extent that courts have said that a lethal injection is not a medical procedure,

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New York, NY

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1 Mark Heath, M.D.		1	_	•
2 completely inappropriate to panteipate in the		,		
3 procedure as has been suidenned in purserous bulled				
4 interdion cases around the country		1	L B	
5 A Now in Rage the Supremo Countries.		4	electrical solvity of the brain and the functioning	
		1.	of the brain. So that's the point where the brain	
7 One was a markenianal manadanae and lake the		1 .	begins to be disripted and at some point the	•
		1 1		,
o an isivi i since mare what south Dakota has used, so an				
2 Civil with one-year professional experience with that				
provision was anequate. Do you know what South		10	immate no longer feels or is conscious of pain?	
The same of the sa	ı	11	A. Well, that's not accurate. The person	
	Į	12	who's been rendered unconscious by a sedative or	
•	Ì	13	anesthetic drie. If they're not deenly anesthetized	
		14	can be aroused by main just as in an amplagance rame to	
experience than the Baze, than the provision approved			how a sleening person can be sleening in a consciour	
in Baze?			Deletin can be arrused in that atola and then	
				•
A. CONTRACTOR OF STREET OF STREET STREET STREET STREET STREET				
something on the record here. Could you just explain			CHARACTER AND A PART OF THE STATE OF THE TANK OF THE T	
anesthusia and particularly in this context. Ler's			shout a 5 man stare of marks built have been been	
say someone is given 5 gram dose of pentoharbital.			color to realize up from that we do a fi	
What's the body going to go through, assuming that			A Piet I to make any new part and they are	
it's all successfully delivered what aning to			Art Main 1 months we wate latting about	-
happen to the body?			you asked the at what point in the process do they lose	
			connectourness. Diving the process their loss of	
	~~	J.	consciousness is initially minimal. They are not in a	
	الا		Page 81	1
Mark Heath, M.D.			Mark Heath, M.D.	
in the arm, it has to it is consied by the circulation			state of deep unconsciousness where they're	
to the near. Fleart actually has two sides, the right			unarouseble. They're initially in a state of light	
side and the ten side. The right side of the heart			unconsolousness where they can still be aroused. As	
will pump the blood through the lungs. The drug will		5	the drug's concentration of the brain tissue increases	
thus be pumped intough the lungs, and return to the		5	their level of unconsciousness will get deeper and	
ies supported heart. And then the left side of the			deeper and by that I mean will become increasingly	
was win pump the blood which now has the drug in it			difficult to shouse and then impossible to unuse.	
guougnous me body, mentaing in the case of			Q. So certainly by the time that	
being president the large word interested in is it			respiratory exest takes place the immate is in an	
Shood into the receipt in the balls and the it will		,	anesthesia of or surgical plane of anesthesia	
Arrayal only of the blood wassels asset and then it will		- 1	and no longer capable of being in pain or being	
inional vessels into the fleets a felic ball. The	1	4	consciously aware of being in pain?	
Then hind or stick to molecules as the market of			A. I don't want to quibble about the	
hairman in the hardy and as a result of the thora-		1	anguage secause you said at the point respiratory	
The little will ston firm alast-had not the truck		3	rest occurs - what we see with pentobabilist is	
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basically all electrical activity or all describbs		12	ancension report wint to call respiratory ariest	j
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		11	an Ill group with that in a	1
	22 23	II IL	a line of the standard for the standard	l
		u:	e time where they're taking halting breaths or	ł
. A. In the sequence that I gave, it's as the	24	9.75	waing or sacring, we don't know that's requiratory	
	procedure, as has been evidenced in numerous leihal injection cases around the country. Q. Now, in Baze, the Suprame Court believed that a provision requiring the hiring of a person with consyear professional experience, and led's talk about an EMT since that's what South Dakota has used, so an EMT with one-year professional experience with that provision was adequate. Do you know what South Dakota's protocol provides? A. In terms of professional experience, two years. Q. So South Dakota's protocol requires more experience than the Baze, than the provision approved in Baze? A. Correct. Q. Now, doctor, I would like to have something on the record here. Chuld you just explain anesthesia and particularly in this context, Let's say someone is given 5 gram dose of pentobarbital. What's the body going to go through, assuming that it's all successfully delivered, what's going to happen to the body? A. The drug will enter the vein let's say Pa qe 7. Mark Health, M.D. In the arm, it has to it is camied by the circulation to the heart. Heart actually has two sides, the right side and the left side. The right side of the heart will pump the blood through the lungs, and return to the left side of the heart will pump the blood which now has the drug in it duroughout the body, including in the case of pentobarbital, the thing were interested in is it being carried to the brain. So it will flow in the blood into the vessels in the brain and then it will travel out of the blood vessels across the wall of the blood vessels into the tissue of the brain, it will then bind or stick to molecules on the surface of theurons in the brain, and as a result of that those neurons will stop firing electrical activity. In the jose that are being talked about here, it all goes in and circulates as planned, that will shut down basically all electrical activity or all detectable electrical activity in the brain. Q. Let me jump in here real quick. At what	procedure, as has been evidenced in numerous leihal injection cases around the country. Q. Now, in Baze, the Supreme Court believed that a provision requiring the hiring of a person with consycar professional experience, and least talk about an EMT since that's what South Dakota has used, so an EMT with one-year professional experience with that provision was adequate. Do you know what South Dakota's protocol provides? A. In terms of professional experience, two years. Q. So South Dakota's protocol requires more experience than the Baze, than the provision approved in Baze? A. Correct. Q. Now, doctor, I would like to have sometiding on the record here. Could you just explain anesthesia and particularly in this context. Let's say someone is given 5 gram dose of pentobarbital. What's the body going to go through, assuming that it's all successfully delivered, what's going to happen to the body? A. The drug will enter the vein let's say Fa go 79 Mark Heath, M.D. In the arm, it has to it is can'ted by the circulation in the heart. Heart actually has two sides, the right side of the heart will pump the blood through the hungs. The drug will thus be pumped through the hungs, and return to the leaft side of the heart. And then the left side of the heart will pump the blood which now has the drug in it for it is a the body, including in the case of pentobarbital, the thing were interested in is it point carried to the bain. So it will flow in the plood into the vessels into the brain and then it will have out of the biood vessels across the wail of the field of the bind or stick to molecules on the surface of the brain. It will hen bind or stick to molecules on the surface of the and circulates as planned, that will attended to the brain, and as a result of that those neurons will stop firing electrical activity. In the goes that are being talked about here, it all goes in and circulates as planned, that will attended to the train activity or all detectable detection activity in the brain. Q. Let me jump in h	injection; as has been evidenced in numerous lethal injection cases around the country. Q. Now, in Baze, the Supreme Court believed that a provision requiring the lating of a person with con-year professional experience, and let's talk about an EMT since that's what South Dakota has used, so an EMT with one-year professional experience with that provision was adequate. Do you know what South Dakota's protocol provides? A. In terms of professional experience, two years. Q. So South Dakota's protocol requires more experience than the Baze, than the provision approved in Baze? A. Correct. Q. Now, doctor, I would like to have something on the record here. Could you just explain anesthesia and particularly in this context. Let's say someone is given 5 gram dose of pentoharbital. What's the body going to go through, assuming that it's all successibily delivered, what's going to happen to the body? A. The drug will enter the vein let's say Fager 79 Mark Health, M.D. In the arm, it has to it is counted by the chevallation to the heart. Heart actually has two sides, the right is de and the left side. The right side of the heart will pump the blood through the lungs. The drug will inus be pumped through the lungs, and return to the left side of the heart. And then the left side of the peart will pump the blood which now has the drug in it diroughout the body, including in the case of pentoharbital, the thing we're interested in is it peling carried to the brain. So it will flow in the blood into the vessels in the brain and then it will dravel out of the blood vessels across the wall of the blood oressels into the tissue of the brain. It will dravel out of the blood vessels across the wall of the flood into the vessels in the brain and then it will dravel out of the blood vessels across the wall of the flood into the vessels in the brain and then it will dravel out of the blood vessels across the wall of the flood into the trans and sa a result of that those neurons will stop firing electrical activity. In the fl	a procedure, as has been evidenced in numerous tethal inflection cases around the country. Q. Now, in Baze, the Supreme Court believed that a provision requiring the lating of a peason with cone-year professional experience, and let's talk about a BEMT since fleats what South Dakota has used, so an EMT since fleats what South Dakota has used, so an EMT since fleat what South Dakota has used, so an EMT with one-year professional experience, two provides? A. In terms of professional experience, two years. Q. So South Dakota protocol requires more experience than the Baze, than the provision approved in Baze? A. Correct. Q. Now, doctor, I would like to have something on the record here. Cound you just explain anneatherla and particularly in this context. Let's say someone is given 5 gram does of pentobarbita. What she body going to go through, assuming that it's all successfully delivered, what's going to pass the first state and the fluid of the beart. And then the left side of the letter of the body? A. The drug will enter like veit left say. Mark Healh, M.D. In the arm, it has to it is cannied by the circulation to the heart. And then the left side of the local will purp the blood which now has the drug in the cast will purp the blood which now has the drug in the cast of the boad, including in the case of pentobarbita, the thing were interested in is it if the purp fire blood where the brain, So it will flow in the blood which how has the drug in the cast of the brain. So it will flow in the blood wheels not the brain and then it will are belong the body, including in the case of the process the wall of the securous will stop the properties of the brain and then it will are belong the process the wall of the securous will stop the properties of the brain and the surface of the recursors will stop the properties of the brain and then it will then bind or stick to molecules on the surface of the properties of the brain and then it will are belong the body, including in the case of the properties of the b

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Alderson Reporting Company 1-800-FOR-DEPO

New York, NY

December 1, 2012

Γ	Page I	36	Page 8
1	Mark Heath, M.D.		1 Mark Heath, M.D.
2	ensethetist, for example, very few are able to do	- 1	wrong with the drug itself or the administration of
3	administrang drugs and detect assessing levels of		3. the drug that something was not going right if as we
4	sedation and unconsciousness. And if they're properly		d discussed if 5 grants didn't lead to comatose state
5	positioned, they'll be able to know if things are done		with no breathing, did not lead to death, then
6	MONE		something is wrong in the process somewhere.
7	Q. How about an EMT?	1	O. So if the first round didn't take it
8	A. Again, we had EMT's in general typically		I might be because there was infiltration and not an
9	are not specialized and experienced in assessing		
10	levels of sodation from anesthetic drugs, but it is an	10	
11	activity that they sometimes confront because	11	
12	sometimes they are called to a situation where a	12	
13.	person has taken an overdose of drugs or alcohol.	1.	
14	Q. Well, the - In the lethel injection	14	
5	setting, is the necessity of experience measuring	15	
16	anesthelic depth very important when you're only using	16	
7	a one-drug peniobarbital protocol?	17	
8	A. You don't have to call it aresthetic	18	
9	depth, but being able to assess the level of	19	
0	intoxication, the level of sedation, the level of	20	
1	impairment of the nervous system functioning, yes,	21	Q. But people are going to see if there's a
2	that's important.	22	puddle of medication on the floor, right?
3	Q. Why is that Important if the immate has	23	A. I don't know, They might miss it. I
1	stopped breathing within 60 seconds, why is it	24	don't know if it's leaking from right at the hub and
5	Important for the EMT to have any further experience	25	
·	Page 87		Page 8:
1,	Mark Heath, M.D.	1	Mark Heath, M.D.
2	with measuring aneathetic depth?	2	then you might not see it.
3	A. If in fact they have stopped breathing	3	Q. So those are the three possibilities for
1	within 60 seconds then you're right there would not be	4	why the immate might not expire as quickly as you
5	anced for that in the case of the single-drug	5	would expect. It could be because there's leakage,
5	protocol using a barbituate.	Ę	there is a sub-potent drug or infiltuation?
7	Q. But if they haven't stopped breathing -	7	A. We're triking about things going wrong.
3	A. You have to understand that shallow	8	They didn't inject the dose, they decided to take half
)	hreathing can be missed by a person who is	9	of it home and have fun with k. Or the powder that
)	inexperienced. So this is sometimes a problem even in	1.0 1.1	was, they thought they were mixing was, or the solution they thought they had was pentobarbital could
	veterinary culturasis, with inexperienced	12	be substituted by someone who wanted to take it bonne
	practitioners that they fail to recognize failed cufranasia procedure.	13	and have fun with it. There are a variety of ways
	Q. If the procedure fails, what do you do?	14	that fix what one is actually doing.
	A. If the procedure is in the process of	15	Q. But in terms of the adequacy of the
	failing, in other words, I presume you mean by that	16	protocol, doctor, that's what we're talking about
	the prisoner is not dead, the procedure calls for	17	here, the protection afforded by limit of all the
	more, for one more round of pentobarbital to be given.	18	presumption that people are going to do their jobs.
		19	and the amount of drug that is called for in the
	O. ROME YOU MAKE BIVE THOSE GREET LIBER IS		protocol, namely 5 grains, those protections would
		20	his change and a south a Mismitted better his his his hand and the comme
	izkes, correct?	20 21	provide reasonable assurance that the individual would
	takes, correct? A. Not until it takes. They have set for	21 22	
	takes, correct? A. Not until it takes. They have set for one more mund of drug and there's nothing specified for after that. And I think it would, everybody would	21 22 23	provide reasonable assurance that the individual would
	takes, correct? A. Not until it takes. They have set for one more round of drug and there's nothing specified for after that. And I think it would, everybody would agree if the first round hadn't worked then I would	21 22	provide reasonable assurance that the individual would be executed by a humane and painless process, would

23 (Pages 86 to 89)

Alderson Reporting Company 1-800-FOR-DEPO IN THE UNITED STATES DISTRICT COURT FOR THE DISTRICT OF MARYLAND

Page 1

VERNON EVANS, JR., Plaintiff

MARY ANN SAAR, Secretary, Department: of Public Safety and Correctional: Services, FRANK C. SIZER, JR., Commissioner, Maryland Division of: Correction, LEHRMAN DOTSON, Warden, Maryland Correctional Adjustment: Center, GARY HORNBAKER, Warden, Metropolitan Transition Center and, JOHN DOES.

Defendants

: CIVIL ACTION NO. : L-06-149

August 29, 2006

ORAL DEPOSITION of MARK HEATH, M.D., taken pursuant to notice, held at the Law Offices of

Wilmer, Cutler, Pickering, Hale & Dorr, LLP, 399 Park

Avenue, New York, New York, commencing at 11:27 a.m.,

before Renee Schumann, Court Reporter - Commissioner

of Deads there being present:

EVANS REPORTING SERVICE



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į	Pag Q. Let me ask you this, do you agree with that or not? A. I would need to see the context in	e 70	1 2	, b
	4 which it was said. The definition of death is		3 4	BY
	6 for it - I agree that it would - If three grams of	- i·	5 6	ЮГ
4	7 Thiopental were effectively delivered into the 8 circulation it would kill the person. Would they be	1	7 8	ma
1	dead in 60 seconds, I, in just a general proposition, disagree with that, but I need to see the context of	ł	9	you
1,	Zaga maa pintasea,	1:	Ĺ	
13	a. may	12	2	rele
14	A STATE OF CHIMAGOUS TO A STREET STATE	13		exec
15 16 17	dose of Thiopental In terms of when they are dead, I think 60 seconds is on the early side for the	14 15 16	t	ltral
18	New A explored policing	17	d	lrцg
19	Q. Well, you've seen Dr. Dershwitz's report; haven't you?	18	V	/elgi
20	A. Yes,	19		ě
21	Q. And Dr. Dershwitz says that there's a	20 21		get en y

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   would certainly cause death in 60 seconds in
   everybody.
Y MS. MULLALLY:
   Do you think it would take a little
nger perhaps in some people?
       I'm sure that it does take longer in
any -- In most people.
       All right. Now, you don't mention in
ur report at all titration of any of the drugs?
      I think that's right, yes.
       Do you think titration is at all
evant in lethal injection since the goal is to
cute the individuel?
      Could you define what you mean by
A.
tion?
```

Q, Changing or selecting an amount of e given based on an individual's sex, height, iht, age, things like that?

It's slightly complicated. If you want at every prisoner the identical safety margin you would need to factor in those types of

Page 71 good possibility that an Individual who is given three grams of Thiopental could be -- could be dead 3 within 60 seconds? MS. GERAGHTY: And again, I am going to 5 object to you asking him questions about -б THE WITNESS: I don't recall him specifically saying that in his report, but I 8 think that's similar to what I'm saying, in 9 some people it could stop their heart 10 basically as soon as it's perfused with the muscle of the heart, which depending on the rate of injection, all that kind of stuff, could be 50 seconds But I also think that in many - and I had said it before getting evidence, before actually seeing EKG records and stuff like

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that, I could have gone along with that statement, but now I've seen evidence that doesn't -- would not normally be available or isn't available to other people that leads me to disagree with a sweaping statement that it

things that you mentioned. If you don't care about doing that, it is, in my opinion, reasonable to give

a dose that if it's effectively delivered will ensure

a surgical pint of anesthesia in everybody. 5

By not titrating what happenes is if something occurs, if not all of the dose goes in, then you put some groups at more risk then others.

Now, do you believe that the injection of the potassium chloride stops the heart and kills an inmate in a lethal injection situation; is that correct?

A. In the great majority of executions that is what actually stops the heart, it's the potassium,

> Q. And why do you believe that?

From reviewing EKG records and in conjunction with witness descriptions and logs hard data, the best data that we have from executions, which again, is not collected in my opinion in a good scientific fashion, but it's the best we have and it's pretty good,

19 (Pages 70 to 73)

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Westlaw.

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For Opinion Sec 2011 WL 2681193, 2011 WL 320166, 2010 WL 3769213, 2010 WL 3238972 2010 WL 3212079 , 2010 WL 1882263 , 2010 WL 1610608, 2010 WL 1434312, 2009 WL 4842393, 610 F.Supp.2d 853, 72 Fed.R.Serv.3d 161, 2008 WL 4411391, 2008 WL 4411393, 2008 WL 4411395, 2008 WL 4065811, 2008 WL 4065812, 2008 WL 4065808, 2008 WL 4065809, 2008 WL 4065813, 2008 WL 4065815, 2008 WL 4065826, 2008 WL 4065828, 2008 WL 4065830, 2008 WL 4065832 , 2008 WL 4065833 , 2008 WL 4065836 , 2008 WL 4065838 , 2008 WL 4065841 , 2008 WL 4065842, 2008 WL 4065844, 2008 WL 4065862, 2008 WL 4065876, 2008 WL 471536, 2007 WL 2688249, 2007 WL 2607583, 2007 WL 1831115, 2007 WL 1202718, 2007 WL 582486, 2007 WL 582490, 2006 WL 3762133, 2006 WL 3526424, 2006 WL 3391001, 2006 WL 3793308, 2006 WL 3043116, 2006 WL 2709775, 2006 WL 1705177, 430 F.Supp.2d 702, 2005 WL 5253337

> United States District Court, S.D. Ohio, Eastern Division. COOEY,

> > STRICKLAND, et al. No. 2:04-CV-1156, March 26, 2009.

Testimony of Mark Heath, M.D.

Case Type: Civil Rights & Constitutional Law >> Section 1983
Jurisdiction: S.D.Ohio
Name of Expert: Mark J. S. Heath, M.D.
Area of Expertise: Health Care-Physicians & Health Professionals >> Anesthesiologist
Representing: Plaintiff

Appearances of Counsel:

For the Plaintiff: Timothy F. Sweeney, Esquire John P. Parker, Esquire.

For the Defendant: Charles L. Wille, Esquire.

Before the Honorable Gregory L. Frost United States District Judge.

COLUMBUS, OHIO

(VOLUME I)

EXCERPT OF TRANSCRIPT OF PROCEEDINGS

Decise N. Errott, RMR, CRR

Official Court Reporter

85 Marconi Beulevard

Room 260

Columbus, Obio 43215

(614) 719-3029,

TARLE

THE COURT: All right. Mr. Sweeney, you may begin your direct examination.

MARK HEATH, M.D. AFTER HAVING BEEN FIRST DULY SWORN, TESTIFIED AS FOLLOWS:

DIRECT EXAMINATION

BY MR. SWEENBY:

- Q. Good afternoon, Doctor. Please state your name.
- A. Mark Heath,
- Q. What do you do for a living?
- A. I'm an anesthesiologist,
- Q. And where at?
- A. In New York City, at Columbia University.
- Q. Tell the Court, if you would, about your you

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- Q. That kind of transparency, do you see that in other states, at least some transparency where you can review the process to know whether the execution was, you know, what medically at least make some judgment as to whether it was humane or not?
- A. Well, there are states where I believe there is a conscientious physician assessing anesthetic depth throughout. That doesn't prove that they're not deliberately misleading, but I am willing -- you know, I fully accept that a conscientious physician is going to be doing their job and ensuring that the prisoner is mesthetized.

Is it a total guarantee? No. There are no guarantees in life on anything, but I think it certainly meets any reasonable standard.

- Q. The issue of transparency, though. And what are the things you, as a physician, would need to know or want to know so that you can make a judgment as to reliable judgment within the scope of, you know, reasonable human endeavor as to whether or not an execution is being carried out in a way that's humane, a person is not suffering pain from it?
- A. You're talking about a hypothetical. If I were to review an execution record and there was an BKG tracing showing that the heart rate hadn't gone up and blood pressure is showing that it had not gone up -- it probably would have gone way down if the thiopental got in -- and a person who understood how to assess anesthetic depth had been observing the procedure, then I would be comfortable that -- even though the prisoner was paralyzed, I would be pretty comfortable that they had had a humane execution. I can look at an anesthesia record and could be pretty comfortable that the patient was properly asiecp, or see that they weren't asleep.

It's much racre difficult with pancurouium. If you really want transparency, you should do it like the veterinarians do it, where they don't use a paralyzing drug. If the dog or the cat is in pain or suffering, it will struggle or back or move in some way, and the owner of the pet will see that. The veterin-

arian will see that and will fix it. That's why veterinarians don't use panouronkum. That's why, in Ohio, animal shelters men't allowed to use paralyzing drugs. It's because they don't want to mask that problem.

- Q. It's your understanding that that restriction on vaterinarians, is that a statutory one, or do you know?
- A. I know animal shelters in Ohio are only allowed to use, pentebarbital, which is -- you can think of pentebarbital like Pentuthal, except that, instead of wearing off quickly, it lasts for a very, very long time, which makes sense to use something long-acting. They're not -- animal shelters don't use attaching offer than that. At least they're not supposed to in Ohio.
- Q. Could the use of one drug, such as in the euthquasia context involving animals, could that, in your opinion, be-effectively used in an execution setting?
- A. Whet works for all other vertebrate animals, all other manimals, is going to, in massive overdoses, is going to work in human beings also.
- Q. Do you have any sense as a medical professional as to how long an execution would take using massive doses of sodium thiopontal?
- A. Which would be the same as using massive doses of some other anesthetic. Yeah.

Q. True.

A. The resison one would die in that context is going to be because of not breathing. The drug will take away the respiratory drive. And in a healthy person, I think that would take probably around ten minites. It's very variable, You will have severe brain injury and brain death after, around four minutes. And, so, a person could be considered brain dead before their heart actually stops working because their brain would have - all the neurons in

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their brain would have died irreparably, and that's brain death. And that's legal death, also. It will take longer, probably, for the heart to stop having electrical activity.

Q. Christopher Newton's execution, it appeared, took what, according to that chart, anyway, based on the timeline? Do you see that? I think it's the last column.

A. Luhink ivs-14 minutes.

Q: In your opinion, would the use of one drug, massive, dose of sodium thiopental or some other barbiturate, take more or less time than that?

A: If you we you know, If you give a massive dose of pentobarbital, which can be done very quickly, in all likelihood the person is going to be legally dead in less time than that

THE COURT: Weil, you keep changing. He keeps talking about sodium thiopental, and you keep saying - I guess - excuse me - what I'm reading from you is that you would suggest going to that other drug?

THE WITNESS: I'm uncomfortable suggesting things, as a physician, proactively designing a protocol, because professional ethics—

THE COURT: What do you think you're doing here?

THE WITNESS: Well, I'm trying to -- that's a very good question, and it's difficult. I am trying to, you know, say what I think the main problems are, but in terms of giving specific recipes, I will -- in terms of the difference between pentobarbital and thiopental that you're asking about --

THE COURT: That's right.

THE WITNESS: - thiopental is given in large volumes, and so it takes a long time. It can take longer to get it in. One can give a comparable or a larger dose of pentoberbital more quickly. So that

affects how the timing would unfold.

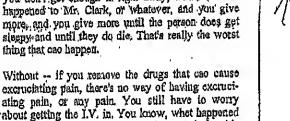
BY MR. SWEENBY:

Q. With the dose, massive dose, of whichever drug, sodium thiopental, peotobarbital, whichever one is used, if that is used in place of a integrating protocol, in your opinion, the LV-access issues and infiltration issues, are those problems any looger?

A. If all you're using is an anesthetic-only technique, which is what voterinarians use --

Q. Right.

A. - the chance of causing an inlamane death is exceedingly remote. Again, you're using a drug that all it does is make you get sleepy and then make you go to sleep and then make you stop breathing and make you'die. The worst that could happen is you don't get enough in right away, which is what happened to Mr. Clark, or whatever, and you give more until the person does get sleepy and until they do die. That's really the worst thing that cao happen.



ies do is make you go to sleep.

Q: The paneuronium, doesnit perform any medicul function stall in an execution?

to Mr. Clark should never have happened, that his neck was being needled, especially when he was

sitting up. You have to wony about those things also, but in terms of the drugs that you use, if you

just use: a massive overdose of an anesthetic; it will

stop the breathing, and it will cause death, and it

will not be able to cause pain, becomes all anesthet-

A. No medical function whatsoever.

Q. Back to the protocol. I want to wrap that up. Does the Ohio protocol address the contingency for what to do in the event peripheral I.V. access is un-

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Q. But you mentioned toxicology, Doctor. In fact, didn't you say in your deposition that the toxicological reports that you have examined indicates that in most circumstances an adequate dosage of thiopental was administered? Dld you not say that?

A. In other states, yes, in the states where I'm able to look. So, again, many states, you can't use the numbers. But in the states where I can use the numbers, most of the time they are.

Q. And didn't you say in your deposition, in fact, that you spoke to a laboratory technician or a laboratory director in North Carolina, and he indicated to you that the samples, the toxicological reports from those samples taken, the samples on which those reports were based, were improperly drawn and couldn't be used to do scientific conclusions?

A. That's not exactly what he said. That's why I don't use numbers from North Carolina to draw robust conclusions.

Q. And you are aware, Doctor, that this court, in previously granting a preliminary injunction, thought that the North Carolina possible evidence of improper thiopental was a significant piece of information, which it was at the time? Are you aware of that?

A. I've been told by attorneys that that was one of the issues you had raised. And I think I saw it in a motion to dismiss or some such motion that you wrote, and that's exactly why I did my very best, both before and after the publication, to try to express the concern that I have about those numbers.

Q. Asn't it true, Doctory that you're opposed to the death penalty? That's true, isn't it?

A. Yes.

Q. And isn't it true that, because you're opposed to the death penalty, you don't really need any substantial evidence that inmates suffered severe pain in order to testify or render an expert opinion that there's a risk that they could? A. Theis completely unture. Again, if Ohio were to use a retaining mandard of lethel injection or to bring in a experienced professional who could ensure enasthetic deeth, when the prigoners are paralyzed and being given potassium, there there would the hitigation, on at deet I would not participate in the litigation, or I would work for your side to say then think this is a sufer a humane procedure.

Q. Isn't it true, Doctor --

THE COURT: They can't afford you.

THE WITNESS: Dr. Dershwitz charges more. So --

MR. WILLE: Thank you, Your Honor. I have no more questions.

THE COURT: Thank you. Actually, it doesn't matter, it's all fungible, I think.

MR. SWEENEY: One question?

THE COURT: Yesh, You said one,

MR. SWRENEY: I think it will be one.

REDIRECT EXAMINATION

BY MR. SWEENEY:

Q. You were about to describe three factors you use to assess substantial risk, Explain to the judge your three factors and how you apply it.

THE COURT: Yeah, That's never been testified to.

MR. SWEENEY: I don't think it has.

THE COURT: No, it has not. No. I said it has not been testified to, but It was brought up on cross.

BY MR. SWEENBY:

Q. Could you go ahead and explain the three factors?

THE COURT: The asteroid hitting the foot apparently, something going on there. I haven't quite

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In The Matter Of:

RONALD ALLEN SMITH, et al. v. STATE OF MONTANA, et al.

MARK J.S. HEATH, M.D. April 28, 2015

Cindy Afanador

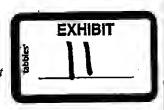
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MONTANA FIRST JUDICIAL DISTRICT COURT LEWIS AND CLARK COUNTY

RONALD ALLEN SMITH AND WILLIAM J. GOLLEHON,

Cause No. BDV 2008-303

Plaintiffs,

v.

STATE OF MONTANA; DEPARTMENT OF CORRECTIONS; DIRECTOR MIKE BATISTA; WARDEN LEROY KIRKEGARD; JOHN DOES 1-20,

Defendants.

April 28, 2015 6:00 p.m.

TELEPHONIC DEPOSITION of the EXPERT WITNESS, MARK J.S. HEATH, M.D., held at 67 Riverside Drive, New York, New York, before Cynthia Zoller, R.P.R., a Notary Public within and for the State of New York.

* * *

Cindy Afanador Court Reporting, Inc. www.cindycourtreporting.com 1 877 337-6968

1 - Mark J.S. Heath, M.D. -2 MARK J.S. HEATH, M.D., 3 Expert Witness herein, having affirmed before Cynthia Zoller, R.P.R., a Notary 4 Public within and for the State of New York, 5 was examined and testified as follows: 6 7 THE REPORTER: Please 8 state your name for the record. 9 THE WITNESS: Mark J.s. 10 Heath, M.D. 11 THE REPORTER: Please 12 state your address for the record. 13 THE WITNESS: The office 14 address is 630 West 168th Street, 15 Department of Anesthesiology, 16 Columbia University, New York, 17 New York 10032. 18 MS. COLLINS: For the 19 record, my name is Pamela Collins. I'm an Assistant Attorney General 20 21 for the State of Montana, 22 representing the defendants. 23 MR. WATERMAN: My name is 24. Ron Waterman. I'm the attorney in 25 Helena, Montana representing the

- Mark J.S. Heath, M.D. - that typically happens, and maybe this paragraph comes from an introductory chapter, I'm not sure.

Q Okay. If you'll take a look at the last sentence of that paragraph at the top of the Exhibit 1, it states that, "Lastly, the author believes in the importance of disclosing that, as a result of his involvement in the legal challenges to lethal injection, he has developed a strong opposition to the imposition of the death penalty as it is presently administered in the United States."

Did I read that sentence accurately?

A I think so, yes.

Q Is that a true statement in terms of you, as far as you are concerned?

A It's a lot more complicated than that, but then it can then be distilled into one sentence and it also reflects my views, this looks like it was written in 2007, so those were my views eight years ago, approximately.

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- Mark J.S. Heath, M.D. patients it might be reduced as low as 100
milligrams and for some patients it might go
up to 400 milligrams, in sometimes more
large and more resistant patients, 400 or
more.

And Dr. Heath, for the thiopental how long did it take for, how long was the time of the onset of action for thiopental when you used it in your work as an anesthesiologist?

A To break it down, the amount of time that elapses between the injection and the first evidence that it's taking effect in the brain is quite variable. It depends on the speed or the rate of the patient's circulation, among other things so an average patient might be in the realm of 20 seconds, 20 to 30 seconds; a patient with a slower circulation because of heart failure or some other problem could be well over a minute and again that's the time it takes for the drug to reach the brain and obviously, it's not exerting any effects on the brain until it reaches the brain so

- Mark J.S. Heath, M.D. that is below the dose needed to exert the
desired effect, in this instance would be
unconsciousness, then the rate at which one
moves towards unconsciousness will be lower
and one will never achieve it.

If one gives a dose higher than, as with most drugs, the more one gives, the more rapidly one sees the effects.

Q And you say this is true of all barbiturates or all drugs in general or, or --

A Well, maybe not of all drugs, because some drugs you don't see the effects for days or longer so the speed with which you give it, whether you give it one minute or five minutes or the dose which you give it will still leave it, will still make it that it only starts to work in several days and perhaps, one wouldn't notice a difference, but I think, let's confine this to what we are talking about, thiopental, which is trying to induce unconsciousness. I think it's fair to say I can't think of an exception right now, that all drugs that are

1 - Mark J.S. Heath, M.D. used to produce sedation and unconsciousness 2 will exert their effects at a more rapid 3 rate if you give more and to clarify again, giving more will not have a substantial or 5 any material effect on how long it takes for 6 the drug to travel from the point of 7 injection to the brain. 8 9 What I'm talking about is the onset and that transition from being fully 10 conscious to being fully unconscious. 11 12 Dr. Heath, if you'll take a look 13 at State's Exhibit 2. 14 Α Yes. 15 This is a five-page document dated April 30th, 2013, which begins with the 16 words, "I, Dr. Mark Heath, hereby declare as . 17 18 follows:" Do you recognize this document? 19 A Yes. 20 And is that your signature on the last page of the Exhibit 2? 21 22 A Yes, it is. 23 Dr. Heath, looking at Paragraph 10 Q in Exhibit 2, in the second sentence you 24 state: "Pentobarbital has a slower onset 25

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- Mark J.S. Heath, M.D. -

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Q You state in that state -- in that sentence in your declaration that I just read, "in many instances, prisoners display a more prolonged period of movement after the drug starts to take effect" and you are referring to pentobarbital versus thiopental. How many instances are you referring to there?

I need to be approximate and say several tens; 10, 20, 30, I don't know. It's the typical description from a pentobarbital execution that the prisoner breathed for a longer period of time, may have uttered some words that may or may not have been coherent, may have moved their body in a variety of ways and those things are extremely uncommon in thiopental executions and I should just give one exception; there are some states that give the thiopental very, very slowly over a period of many minutes and in those cases as one would expect, that onset transition is a lot slower, but that's not because the drugis, because of the aspect of the drug, it's

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                    - Mark J.S. Heath, M.D.
         to and another one was not and I don't
     2
        recall which one I looked at, to be honest.
     3
    4
                    Could you tell me what the time of
        onset of action would be when 3 grams of
    5
        thiopental is properly administered
    6
    7
        intravenously?
    8
            A
                   At what rate?
   9
           . Q
                   Could you give me a range
  10
       depending on the rate?
  11
           A
                   At a very slow rate it would take
      hours.
  12
               At its fastest possible
      administration, it would take some tens of
  13
      seconds to transition from full
  14
      consciousness to full and deep
 15
      unconsciousness.
 16
 17
          O
                 And I'm sorry, what -- I'm getting
 18
     mix up with tens or tenths.
 19
          A
                 Tens.
                        I'm sorry, there are no
     tenths in this discussion.
20
21
         Q
                 So it's tens?
22
         Α
                 Tens, yes.
23
         Q
                So tens of seconds?
24
         \mathbf{A}
                Yes.
                      And I just have to be clear,
    I've not had the opportunity to be
25
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- Mark J.S. Heath, M.D. time, but does not die because the drug
hasn't been fully, hasn't been delivered
into the circulation, just into the tissue,
and emerges with brain damage, which would
be an inhumane and disastrous outcome.

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That is less likely to happen if thiopental or another ultrashort acting drug is used, because in that circumstance, the prisoner will not attain a high enough level in their blood to render them unconscious and make them stop breathing and sustain brain damage so again the concern centers on the executions which inevitably occur where the drug or drugs are not delivered into the venous system and into the circulation, but instead, are infiltrated into the tissues surrounding the IV catheter.

Q But Doctor, assuming proper administrations of the drugs, what would be your response?

A If proper administration of the drug occurs, whether it is thiopental or pentobarbital, if proper administration occurs in the intended multi-gram dose into

CINDY AFANADOR COURT REPORTING, INC. 1-877-DEPO-YOU - Mark J.S. Heath, M.D. the circulation and carried to the brain,
then there's no difference between the
drugs, because they will both produce deep
unconsciousness that will outlast the
duration of the execution.

The problem centers around the inevitable occurrence of improper or failed administration.

Doctor, what is the dividing line between the classification of ultrafast barbiturates and fast barbiturates; is it a time dividing line or where do we draw the line between those two or where do medical people draw the line between those two?

Mell, the line is really a molecular line. The molecules that have been modified to have this property of very rapidly crossing membranes is a discreet group from the rest of the barbiturates, because they don't have that modification or those modifications. Those modifications have created a class unto itself, this ultra class, which is not surpassed or exceeded in that property of rapidly crossing a membrane

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Case 4:04-cv-04200-LLP Document 142-4 Filed 10/15/10 Page 1 of 9 PageID #: 1579

UNITED STATES DISTRICT COURT DISTRICT OF SOUTH DAKOTA SOUTHERN DIVISION

DONALD E. MOELLER,

Civ. 04-4200

Petitioner.

Affidavit of Warden Douglas weber

DOUGLAS WEBER, Warden, South Dakota State Penitonilary,

Respondent.

State of South Dakota)
: ss
County of Minnehaha

I, Douglas Weber, being first duly sworn upon eath, testify, based on personal knowledge and belief, as follows:

- 1. I was appointed to serve as Warden of the South Dakota State

 Penitentiary program (hereinafter SDSP), located in Sioux Falls, South Dakota,
 on November 19, 1996, by then Secretary of Corrections; Jeff Bloomberg. In
 my capacity as Warden, I have, pursuant to SDCL 24-2-1, charge and custody
 of all intraces confined in the SDSP.
- 2. Among the immates under my charge and custody are those sentenced to death under SDCL ch. 23A-27A. In South Dakota, the punishment of death shall be injected by lethal injection. SDCL 23A-27A-32. Statute, as amended July 1, 2007, provides that, as Warden, I shall determine, subject to the approval of the Secretary of the South Dakota Department of Corrections (hereinalter SDDOC), the substances and the quantity of



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Case 4:04-cv-04200-LLP Document 142-4 Filed 10/15/10 Page 2 of 9 PageID #: 1580

substances used for the punishment of death. Prior to July 1, 2007, SDCL 23A-27A-32 provided for a two drug combination of substances to execute a death sentence, specifically, "The punishment of death shall be inflicted by the intravenous administration of an ultra-short-acting barbiturate in combination with a chemical paralytic agent and continuing the application thereof until the convict is pronounced ...".

- In order to fulfill that responsibility, I, along with various members of my staff, undertook to adopt and implement, effective June 14, 2007, Emergency Response Manuel A.12 entitled "Capital Punishment Final Days Procedures," (hereinafter ERM). As provided therein, I elected, with the approval of the Secretary of Corrections, to adopt the three drug protocol used by at least thirty other states, along with the federal gover ment to execute prisoners. The ERM further provided, in accordance with SDCL 23A-27A-32.1, that those immates sentenced to death prior to July 1, 2007, had the option of choosing to be executed using the three drug protocol or a two drug protocol consisting of an ultra short acting barbiturate in combination with a chemical paralytic agent.
- 4. Under the three drug protocol adopted in the aforementioned ERM, the lethal injection process involved the administration of chemicals as follows:
 - 1. The first syringe contained three grams of sodium thiopental, an ultra short acting barbiturate, along with approximately thirty milliliters of a solution of sterile water;
 - 2. The second syringe contained fifteen to twenty-five milliliters of saline to flush the IV line and to prevent any interaction between the first and second drug;

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- The third syringe contained one hundred milligrams of pancuronium bromide, a chemical paralytic agent, along with approximately lifty milliliters of a solution of sterile water;
- 4. The fourth syringe again contained fifteen to twenty-five millifliers of saline to flush the IV line; and
- 5. The fifth and final springe contained not less than 140 millequivalents of potassium chloride, used to stop impulses to the heart, along with a solution of approximately seventy milliliters of sterile water.

Before carrying out the intravenous injections, I made every effort to ensure that the person administering those injections was adequately trained to do so.

- prohibit physician participation in executions. State statute, therefore, provides that "the person administering the injection need not be a physician, registered nurse, or licensed practical nurse licensed or registered under the laws of this or any other state." SDCL 23A-27-32. As provided for in the 2007 ERM, I selected, with the approval of the secretary of the SDDOC, an executioner and a backup executioner trained to a trainister intravenous injections. As in Taylor v. Crawford, 487 F.3d 1072, 1082 (8th Cir. 2007), the IV team consisted of contracted medical personnel.
- 6. The aforementioned ERM was in place at the time of the Elijah Page execution on July 11, 2007. In accordance therewith, the individual I selected to insert the IV lines into immate Page at the time of his execution had been a licensed/certified paramedic for over fifteen years and was trained and experienced in IV insertion.

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- According to eyewitnesses to the execution of Elijah Page, it was carried out in accordance with the established protocols and was described as being "done by the book and a bit like clockwork." Attachment A, Minnesota Public Radio. As indicated by Carson Walker, a reporter for the Associated Press, "it was just a matter of seconds . . . the next thing we heard were several gasps, it was almost like a snoring, and his chest heaved a couple of times:"
- A similar account was also given by Bill Harlan, Rapid City Journal, who was another eyewitness to the Page execution. In an article written for the Rapid City Journal, Mr. Harlan stated Page never moved. Not his head, not his arms, not his feet." According to Harlan, inmate Page "gasped slightly. His chest heaved, but only a little, and he exhaled with what sounded like a shore." Attachment B.
- Affiant remained in the execution chamber with inmate Page at all 9, times during the scheduled execution. At no time whatsoever did I observe inmate Page display any signs of pain during his execution on July 11, 2007. There was no evidence of inmate Page crying out, writhing in pain, gasping for breath or otherwise moving during the execution process.
- In the case of immate Page, death occurred within a matter of minutes after the aforementioned chemicals were administered. Affiant believes that this clearly attests to the experience and efficiency of the executioners chosen to assist in carrying out the scheduled execution of inmate Page. Inmate Page's execution was carried out in accordance with the

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established ERM and resulted in what appeard to be swift and painless a death as possible.

- discussions with legal counsel for the SDSP and the SDDOC, that the United State Supreme Court upheld the lethal injection protocols adopted by the Kentucky Department of Correction. Baze v. Rees, 553 U.S. 35, 128 S.Ct. 1520, 170 L.Ed.2d 520 (2008). In addressing further challenges to the lethal injection protocols adopted by other states, the Court held a state with a lethal injection protocol substantially similar to [Kentucky's] . . . would not create a substantial risk of pain rising to the level of an Eighth Amaphrent violation." Clemons v. Ctawford, 585 F.3d 1119, 1126 (8th Cir. 2009) (citing Baze, 553 U.S. at 61, 128 S.Ct. at 1537.
- 12. Affiant, in consultation with legal counsel, thereafter undertook to determine, in light of Beze, what, if any, changes to the then existing ERM would even further reduce what I believed to be an already remote possibility that a condemned inmate would experience any unnecessary pain during an execution by lethal injection. In doing so, Affiant also reviewed and relied on decisions from the Eighth Circuit Court of Appeals upholding, as constitutional, the lethal injection protocols adopted in Arkansas and Missouri. Clemons, 585 F.3d at 1128; Nooner v. Norris, 594 F.3d 592 (8th Cir. Ark. 2010).
- 13. Based on my consultations with counsel, as well as my review of the aforesaid case law, Affiant revised the ERM on August 12, 2010. Under the

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revised protocols, the substances and quantity of substances used to inflict the punishment of death remain the same and have, pursuant to SDCL 23A-27A-32, been approved by the Secretary of Corrections. Those revisions incorporated yet additional safeguards to even further insure that the condemned inmate has been rendered unconscious by the proper administration of the first chemical, sodium thiop stal, and thereby eliminate risks, however slim, that the inmate would experience any pain associated with the administration of paneuronium bromide and potassium chloride.

- 14. As amended, the current ERM goes even further than the Kentucky protocols approved in Baze and requires that members of the IV team responsible for establishing an IV infusion site have at least two years of experience as a medical or osteopathic physician, physician assistant, registered nurse, licensed practical nurse, certified medical assistant, phiebotomist, paramedic, emergency medical technician or military corpsman.
- increasing the length of the interval between administration of the first and second injections. Under the protocols as they existed in 2007, "to assure the sodium pentothal has taken affect and the condemned is unconscious, there will be a pause before administering the next injection of approximately two minutes after the second injection is completed." That "pause," under the revised protocols, has now been increased to three minutes.
- 16. During that three-minute time period, Affiant and/or his designee will, using standard medical techniques such as checking the inmate for

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mevement, open eyes, eyelash reflex, and response to verbal commands and physical stimuli, verify that the inmate has indeed been rendered unconscious by the administration of the thiopental.

- 17. Affiaht and/or his designee will also continuously monitor the primary infusion site for signs of any problem such as obvious swelling caused if the IV fluids or chemicals were to infiltrate into the tissue surrounding the IV site. If Affiant has any reason to believe that the primary IV site is not working or has become obstructed, I will immediately direct that the flow of chemicals be stopped to the primary IV site. The executioner would thereafter be instructed to a limitister an additional three (3) grams of thiop I tal to the inmate using the secondary or backup IV site.
- 18. Moreover, if Affiant, after that three-minute interval, has reason to believe that the inmate remains conscious, I and/or my designer will direct the executioner to administer the backup dose of sedium thiopental using the secondary IV line. The remaining characters, paneuronium bromide and polassium chloride, will be administered only after confirmation that the prisoner is unconscious and after a period of at least three minutes have clapsed from the injection of thiopental.
- 19. Afflant believes that these additional safeguards serve to even further insure that the thiopental is properly administered to the condemned inmate and thereby eliminate the possibility, however skim, that the inmate will experience any unnecessary pain restricting from the administration of pancuronium bromide and potassium chloride.

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- 20. In the case of an immate convicted and sentenced to death prior to July 1, 2007, who chooses, pursuant to SDCL 23A-27A-32.1, to be executed in the manner provided by South Dakota law at the time of his conviction and sentence, the current ERM adopted by Affiant includes a "two drug protocol," approved by the Secretary of Corrections, consisting of the administration of three (3) grams of sodium thiopental along with fifty milligrams of paneuronium bromide. Affiant believes that this will alleviate any concern by inmate Moeller that he may experience excruciating pain caused by the potassium chloride. Clemons, 585 F.3d at 1124 (citing Taylor, 487 F.3d at 1074). An inmate electing to be executed using this two drug protocol will be able to avoid any alleged risk said to be associated with the third drug, potassium chloride.
- 21. As with the "three drug protocol," Affiant will, after administration of the sodium thiopental, wait for a period of at least three infautes before directing the executioner to commence administering the paneuronium bromide. During this interval, Affiant and/or his designee will again assess the immate for any signs of consciousness using the aforementioned standard clinical techniques. If it appears to Affiant that the immate still remains conscious within the three minutes after administering the thiopental, I will order that the flow of chemicals to the primary IV site be stopped. The executioner will then be directed by Affiant to administer an additional three (3) grams of thiopental to the immate using the backup IV.

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- 22. Affiant, along with the IV team, will continuously monitor the IV and infusion site. If there is any sign of infiltration or other problem with the IV site, Affiant will once again direct the executioner to stop the flow of chemicals to that site and resort to the use of the backup IV.
- 23. The executioners will commence the flow of pancuronium bromide only after Affiant and/or his designee has confirmed that the inmate has been rendered unconscious by the administration of the thiopental. If, after ten minutes following the administration of the pancuronium bromide, the person responsible for pronouncing death is not able to do so, Affiant will order the executioner to administer a second set of chemicals as described above.
- 24. Affiant is convinced that an immate executed pursuant to the current ERM will not face any foresecable risk of unnecessary pain during his/her execution. The ERM was revised by Affiant to eliminate any substantial risk of harm to the inmate undergoing a death by lethal injection in South Dakota.

Dated this Z3 day of August , 2010.

Douglas Weber, Warden South Dakota State Ponitentiary

Subscribed and sworn to before me this 23 day of August, 2010.

(SEAL)

pld_FG_Moeller'v Weber - Affidavil of Weber (br)

Notary Fublic-South Dakota
My Commission expires: 6/16/20/

PATSY MIKEL

SEA) SOUTH CAROTA SEA)

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UNITED STATES DISTRICT COURT DISTRICT OF SOUTH DAKOTA SOUTHERN DIVISION

DONALD E. MOELLER,

Civ. 04-4200

Plaintiff.

AFFIDAVIT OF DOUGLAS WEBER

DOUGLAS WEBER, Warden, South Dakota State Penitentiary, DENNIS KAEMINGK, Secretary of the South Dakota Department of Corrections, and DOES 1-20, unknown employees or agents of the South Dakota Department of Corrections,

Defendants.

State of South Dakota

* 59.

County of Minnehaha

I, Douglas Weber, being first duly sworn upon oath, testify on personal knowledge and belief as follows:

- 1. I am the warden of the South Dakota State Penitentiary. In that capacity I carried out the execution of Eric Donald Robert on October 14, 2012. Robert's execution was performed using compounded pentobarbital.
- 2. I was in the execution chamber standing at Robert's right shoulder during the entire execution. Quoe Robert made his last statement, I signaled the executioners in the chemical room to commence the injection.
- 3. Robert remained conscious for only-45 seconds following my signal. He thereafter lost consciousness, expelled a snore, and remained unconscious until he was pronounced dead by the coroner. Robert expelled his last breath approximately 90 seconds after I signaled to commence the injection. After approximately 10 minutes, Robert's pulse ceased. After approximately 20 minutes, all electrical activity in Robert's heart ceased and he was pronounced dead by the coroner. A copy of the official timeline is attached.



- 4. Robert exhibited virtually no signs of pain or physical distress during either the seconds he remained conscious after the injection commenced or during the period of unconsciousness before he died. Media witness accounts describing the execution as "rapid," "swift," and "painless" are accurate. Robert's lawyer's description of the execution as "orderly," "polished," and "peaceful" also accurately describes the event. Copies of these accounts are attached.
- 5. Donald Moeller will be executed with the same drug via the same protocol as Robert. Due to the then-pending litigation, I ordered that the drugs for Moeller's execution be tested. The pharmacist had the drugs tested by an independent lab. The testing informs me that the drug intended for use in Moeller's execution has passed authoritative USP standards for purity, potency, and sterility. A copy of the testing report is attached.

Dated this 22nd day of October 2012.

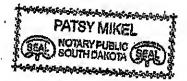
Douglas Weber

Subscribed and sworn to before me this 22nd day of October 2012.

Notary Public- South Dakota

(SEAL) .

My commission expires: 6/16/16



Execution Timeline Record

nmate name: Eric Robert	Inmate number: #56564
Execution Date: 10/15/12	op de la latina de latina de la ina de la la
1. Removed from holding cell	Time: 9:31 pm
2. Transferred to table	Time: 9:38 pm
3. Restraints secured	Time: 01:35 pm
4. IV started	Time: Right arm 9:37 pm
	Left orm 9:41 pm (Note whether arm, leg, or other)
Begin escorting witnesses to viewing rooms	Time: 9:44pm
All witnesses present, Warden orders curtains opened	Time: 9:53 pm, 9159 pm
 Secretary of Corrections informs Warden that he/she is cleared to proceed with the execution 	Time; <u>10:00 pm</u>
8. Last statement	Time: 10:01 pm
9. Injections begin	Time: 10:01 pm
10. Injections completed	Time: 10104 pm
11. Second set of injections required	YES_VNO
a. If yes, time second injection	ns were started. Time:
b. Time second injections con	mpleted. Time:
12. Time death was pronounced	Time: 10:24pm
13. Curtains closed	Time: 10:25 pm



other death row inmate, Donald Moelier, is scheduled to be executed this month, elisha PAGE/ARGUS LEADER

DINLINE

NATCH: See video from the cene Monday, a post-execution news conference, court proceedngs in the case and documents. HAT: Watch a replay of a chat Jonday with Managing Editor atrick Lalley and reporter John luft about the case. DARGUSLEADER.COM

DECUTION BLOG: See photo latteries, video interviews and nore in a special online section PARGUSLEADER COM

DECUTIONS

MISIDE

PANTEY: Slain prison guard's family reacts VIOLS: Death penalty supporters, opponents MOOD: Reaction in Sloux Fails MARLINE: Events leading to the execution STORIES: Pages 4-6A

Witnessing death final step in sad saga

By John Hult hult@argutlesdar.com

By the time you read this, Eric Robert will be dead, executed by lethal injection for the murder of Corrections Officer Ron Johnson.

Through the window of a tiny exam room, seven other people and I watched Robert heave his last breaths and speak his last words.

Two were deputies for Attorney General Marty Jackley, who watched the death from one of the other three rooms. A reporter from the Associated

Press and I joined them, Min-nehaha County Jail Warden Da-rin Young and three other employeos of the DOC in the room.

My job as a media witness was to observe, walk back to a briefing room in the Ronald 'R.J.' Johnson training center and answer questions from other reporters about what happened.

I'd never witnessed in execution until last night, so I called three reporters who had, to gather insight.

The consensus: The death it-

See WITNESS, Page 6A

Breast cancer care gets lift

1.5IM from Helmsley trust to benefit treatment in remote areas

By Jon Walker jwalkar@argusteader.com

I research group including era Health received \$3.5 mil-Monday for a breast cancer gram that will use genetics personalize treatment for

the grant from the Leona M. Harry B. Helmaley Charita-Trust will support an effort naluze DMA, compare freat-



Amy Krie

the Dakotas, Wyo-Montaria, Wyo-ming and Nebras-

"This grant will open new doors of opportunity and lead to better care for patients in our region and across

the nation," said Dr. Amy Krie, medical oncologist with the Avera Cancer Institute.

the Ramkota Inn in Sioux Falls.

The direct recipient of the money will be the University of . Nebraska Medical Center in Omaha The university's Eppley Cancer Center will work with Avera, the Trinity Health Cancer Center in Minot, N.D., and the Welch Cancer Center at Sheridan Memorial Hospital in Wyoming.

The grant is part of an overall \$5.9 million project, with the



Witness: Family, friends will cope with:

Continued from Page 1A

self, so long as nothing goes wrong, essentially is a nonevent for the witnesses.

They were right. When Warden Doug Weber asked Aesociate Warden Troy Ponto to open the white blinds that covered our windows from the inside of the execution chamber,. Robert already was strapped down. He had needles in his erms end cloth bandages securing his hands.

He was clean-shaven: His hair was short. His face expressionless.

Warden Doug Weber esked for his last words:

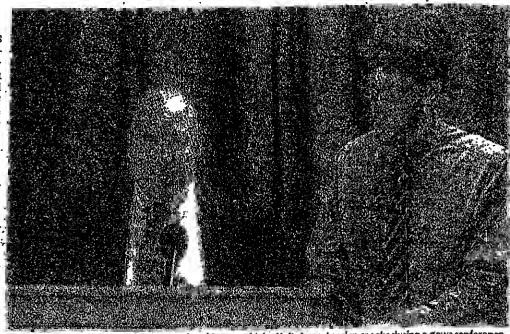
The lest three stood out: "It is done," spoken with pauses, as though each word were its own sen-

He closed his oyes and whispered what sounded lika prayers to himself for about a minute. Three min-utes after 10 p.m., he pron heaved three or four heavy p.m. sighs and made a sound similar to the clearing of a dry threet.

eyes suddenly , and his chest suddenly His opened, and his chest stopped moving. His eyes remained open as the assis-. tant coroner checked for a pulse ethis wrist, chast and

Three minutos. His skin tone had changed by 10:25 p.m., when coroner Kondead, but nothing else about Robert changed after 10:03.

When Elijah Page was executed in 2007, the entira process, from his arrival in the execution chamber to the pronouncement of his administered after a sin basentially a working clin- an authority figure at a gle, heeving snore. He was ic. The media-blitz sur high-security prison.



Execution witnesses, Dave Kolpack, Associated Press and John Huit, Argus Leeder, speaks during a news conference following the execution of Eric Robert on Monday at the South Dakoza State Penitentiary in Sloux Falls. Robert confe to murdering corrections officer Ronald "R.J." Johnson during en escape attempt in April 2011, EUSHA PAGE/ARGUS LEADER

pronounced dead at 10:11 rounding the death, the

The minutes before Robert's execution were more troubling than the deeth. We were guided from the front door through the penitentiary's West Gate. That's the gete where Robert and his accomplice Rodney Berget were captured after killing Johnson.

We walked through the prison yard and into the old neth Snell pronounced him infirmary, where we altest dead, but nothing else —mostly insilence—in an office filled with photos of Little Leagua games. The leader for our group thap took us to the exam room, which still is used to treat patients.

It's isente that the lives death, took 31 minutes. He death row inmetee are and at work and seamed to stopped moving six min taken in such erepid, pain have no enemies to speak utes after the drugs were less fashion inside what is of despite his 23 years as utes after the drugs were less fashion inside what is of an authority figure at a

years of legal socutiny, the preparations — all of it leads to a supposedly painless killing that lasts just a matter of minutes.

It's a menner of deeth reserved only for people executed in the United States.

It stands in stark contrast to the experience of the victims.

The Johnson family's private tragedy has played out in the public to exeruciating effect since April 12, 2011, the day Robert end Berget killed Johnson.

I feel, as envone who's followed the case closely surely does, that I know Johnson on some level.

He was baloved et home

He was working on his 63rd birthday, his dey off, covering a shift at someone else's post.

Ifeel ee though I know Robert on some level, as well, having read about and researched his life.

I imegine some people believe journaliste enjoy talking to grieving fam-lies, following tragedy or witnessing and hearing horrors recalled and recounted.

Iva never met a journalist who doas.

It's part of the job, which is to keep readers informed of what the government - including the police and courts - is up to

In practice, for thosa closest to a crime, we become part of the amotional grinder that victims, criminals and their femilies are putthrough efter a murder. takes place.

Just as they are drap into the justice systen willingly by a orime o other's creation, they dragged into the spot and become public figr

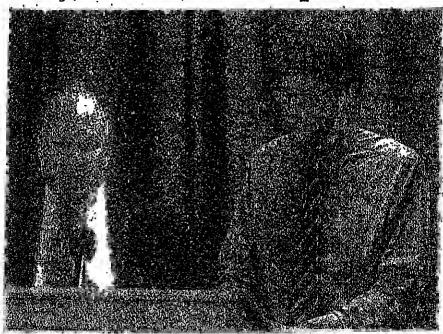
The families idea bodies, spend hours ing with detectives, through trials and t inge and sometimes t fy, reliving their ex ences. They listen to fonse lawyers que their credibility, down the crimes that huit to then ask judges to a their wrongdoere 1 mercy than victims shown.

families The friends of the crim have to live with tha j mente of the victims' ilias and the public, live with the shame.

All of those people 8 risk of getting a call 1 someone like me who

' Thosday, October 16, 2012

mily, friends will cope with aftermath



Dave Kolpack, Associated Press and John Huit, Argus Leader, speaks during a news conference on of Eric Robert on Mondey at the South Dakota State Penitentiary in Sioux Falls. Robert confessed one officer Ronald "R.J." Johnson during an escape attempt in April 2011. Elisha PAGE / ARGUS LEADER

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tt 10:11 rounding the death, the years of legal scrutiny, the preparations — all of it were leads to a supposedly pain-an the less killing that lests just a matter of minutes.

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followed the case closely surely does, that I know Johnson on comé level.

He was beloved at home and at work and seemed to have no enemies to speak of, despite his 23 years as an authority figure at a high-security prison.

He was working on his 63rd birthday, his day off, covering a shift at someone else's post,

I feel as though I know Robert on some level, as It's a manner of death well, having read about and researched his life.

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All of those people a call from someone like me who will takeeplace.

Justautheyaredragged into the justice system unwillingly by a crime of another's creation, they are dragged into the apotlight and become public figures.

The families identify bodies, spend hours talking with detectives, sit through trials and hearings and sometimes testify, reliving their experiences. They listen to defense lawyers quastion their credibility, downplay the crimes that hurt them then ask judges to show their wrongdoers more mercy than victims were shown.

families The friends of the oriminals have to live with the judgments of the victims' fairilies and the public, and live with the shame?

ONLINE

John Huft has been the public safety reporter since 2009. Follow his blog on crime and courts at http:// lhult.tumbilt.com/.

ask them to repeat and relive those experiences in the name of an informed public.

It's not easy to hear a person cry on the other and of a telephone:

At this point, I've spent weeks thinking about the tears shed; by Lynette Johnson and her children, Missy and Jesse, at Robert's sentence hearing. -

Will Lynette, who spent only six nights away from her husband in 32 years, feel some measure of closure now?

How will Missy and Jesse; who struggled to explein the loss of "Papa" to their young children, explain what happened Mon-

day? And what of Robert's family? What of his 72year-old mother. who worked three jobs in hopes of seeing her children grow into a better life? What wes she experiencing as her only son's death approached?

As a crime reporter in a state that puts its worst offenders to death, it was my duty to report the details of the execution. Two been mentally preparing for

I realize that emotional deparation is a fantasy, but I'm doing my job. So were Attorney General Marty Jackley, Minneliaha County State's Attorney Agron McGowan, and many of the other witnesses:

Robert's swift, painless end will resonate for the other witnesses far more than it will for us.

The Washington Post

Back to previous page



South Dakota inmate who killed prison guard put to death in state's first execution since 2007

By Associated Press, Published: October 15

SIOUX FALLS, S.D. — A South Dakota man who beat a prison guard with a pipe and covered his head in plastic wrap to kill him during a failed escape attempt was put to death Monday, in the state's first execution since 2007.

Eric Robert, 50, received lethal injection and was pronounced dead at the state penitentiary in Sioux Fails at 10:24 p.m. He is the first South Dakota inmate to die under the state's new single-drug lethal injection method, and only the 17th person to be executed in the state or Dakota Territory since 1877.

Robert had no expression on his face. Asked if he had a last statement, Robert said: "In the name of justice and liberty and mercy, I authorize and forgive Warden Douglas Weber to execute me for the crimes. It is done."

As the drug was administered, the clean-shaven Robert, wearing orange inmate pants with a white blanket wrapped around his upper body, appeared to be clearing his throat and then began gasping heavily. He then snored for about 30 seconds. His eyes remained opened throughout and his skin turned pale, eventually gaining a purplish hue.

Robert was put to death in the same prison where he killed guard Ronald "RJ" Johnson during an escape attempt on April 12, 2011. Robert was serving an 80-year sentence on a kidnapping conviction when he

http://www.washingtonpost.com/national/south-dakota-inmate-who-killed-prison-guard-s... 10/19/2012

tried to break out with fellow inmate Rodney Berget, 50.

Johnson's widow, Lynette, said after the execution that she knows Robert's death will not bring back her husband, her ohildren's father or her grandchildren's grandfather.

"But we do know that the employees of the Department of Corrections and the public in general will be just a little bit safer now," Lynette Johnson said. "We need to have more attention and focus on the safety of all of the correctional officers in the state of South Dakota. Ron, none of you will ever know how great he is and is missed. We stand proud for Ron."

Lynette Johnson, her two children and their spouses all witnessed the execution. No one from Robert's family was in attendance.

Robert ate his last meal of ice cream with his lawyer, Mark Kadi, on Saturday night before fasting for 40 hours for religious reasons.

After the execution, Kadi said the execution was very "orderly and polished."

"The problem was it was too orderly. It was so antiseptio and peaceful that it masked what was being done to the person," Kadi said. "If more people were able to see the events, there would be fewer of them."

Johnson was working alone the morning of his death — also his 63rd birthday — in a part of the prison known as Pheasantland Industries, where immates work on upholstery, signs, custom furniture and other projects. Authorities said the inmates beat Johnson with a pipe, covered his head in plastic wrap and left his body on the floor.

Robert then put on Johnson's pants, hat and jacket and approached the prison's west gate. With his head down, he pushed a cart loaded with two boxes. Berget was hidden in one of the boxes, according to a report filed by a prison worker after the slaying.

Other guards became suspicious as the men got closer to the gate. When confronted, Robert beat one guard; other guards quickly arrived and detained both inmates.

Months later, Robert told a judge his only regret was that he hadn't killed more guards. He pleaded guilty to Johnson's slaying and asked to be sentenced to death, telling a judge last October that he would otherwise kill again. He never appealed his sentence and even tried to bypass a mandatory state review in hopes of expediting his death.

Berget also has pleaded guilty in the killing but has appealed his death sentence. A third inmate, Michael Nordman, 47, was given a life sentence for providing materials used in the slaying.

Robert's execution could be the first of two in as many weeks. Donald Moeller is scheduled to be put to death the week of Oct. 28 for the 1990 kidnapping, rape and murder of a 9-year-old girl. Robert had been on death row only for about a year, Moeller has been there for more than two decades. Only three other inmates currently are on the state's death row.

South Dakota's last execution before Monday took place in 2007, and that was the first in the state for 60 years.

http://www.washingtonpost.com/national/south-dakota-inmate-who-killed-prison-guard-s... 10/19/2012

Case 5:00-cv-05020-KES Document 215-61 Filed 09/05/13 Page 9 of 11 Page 10 #: 2356 South Dakota inmate who killed prison guard put to death in state's first execution since 2... Page 9 of 31 Page 10 #: 2356

"You have few people on death row, few executions, and then you have this coincidence of cases coming all at once," said Richard Dieter, executive director of the hopprofit Death Penalty Information Center. "When people waive appeals, their cases start to move more quickly."

Associated Press writers Amber Hunt in Sioux Falls and Blake Nicholson in Bismarck contributed to this report.

Follow Kristi Eaton on Twitter at http://twitter.com/kristieaton.

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http://www.washingtonpost.com/national/south-dakota-inmate-who-killed-prison-guard-s... 10/19/2012

UNITED STATES DISTRICT COURT DISTRICT OF SOUTH DAKOTA SOUTHERN DIVISION

DONALD E. MOELLER.

Civ. 04-4200

Plaintiff,

٧.

AFFIDAVIT OF DEPONENT # 1

DOUGLAS WEBER, Warden, South Dakota State Penitentiary, DENNIS KAEMINGK, Secretary of the South Dakota Department of Corrections, and DOES 1-20, unknown employees or agents of the South

Dakota Department of Corrections.

Defendants.

State of South Dakota

* 55,

County of Minnehaha

I, Deponent # 1, being first duly sworn upon oath, testify on personal knowledge and belief as follows:

- 1. Deponent # 1 compounded drugs intended for use in Donald Moeller's execution on or about October 3, 2012. The drugs were compounded on this date to allow time for testing prior to Moeller's execution.
- 2. Deponent # 1 submitted a test sample of the compounded drug to a lab customarily used by my pharmacy. The lab was chosen by me with no influence from the state. On October 17, 2012, the lab reported that the drug I compounded meets USP standards for purity, potency, sterility, and 30-day stability. A redacted report is attached.

Dated this 22nd day of October 2012.

Deponent # 1

Subscribed and sworn to before me this 22nd day of October 2012.

Notary Public-South Dakota

(SEAL)

My commission expires: October 15, 2017

MAXINE J. RISTY

MAXINE J. RISTY

MOTARY PUBLIC

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Product Release Report FINAL DATA

Report Date

10/17/2012

Sponsor



Sample No.

39521

Product Description

Sodium Pentobarbital 80 mg/ml

Lat No. Expiry

1045082A 11/1/2012

Release Specification:

SPEC-PSSD-006.0

Propedure.		Specification	Final Data	Status	Date of Test	Reference
≃ÿrògen		NMT 0.8 EU/mL	0.48 EU/mL	Passes ·	10/4/2012	USP <85>
Sterility	·	Negative	Negative .	Passés	10/3/2012	USP <71>
ungai Screening		Negative	Negative	Passos	10/3/2012	USF <71>
PLC	,	90-110% as Sudium Pentobarbital	106.7% 53.8 mg/ml:	Passes	10/4/2012	HPLC-TM-217.0

ate Received:

10/3/2012 1 x 40 ml

Canter: Tracking No.:





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STATE OF SOUTH DAKOTA COUNTY OF PENNINGTON

CHARLES RUSSELL RHINES

Petitioner,

VS

DOUGLAS WEBER, Warden, South Dakota State Penitentiary,

Respondent.

IN CIRCUIT COURT SEVENTH JUDICIAL CIRCUIT

CIV. 02-924

AFFIDAVIT OF DOUGLAS WEBER

Affiant, after first being sworn upon his oath, states as follows:

- 1. If called at trial, affiant would testify to the following facts.
- I am the Warden of the South Dakota State Penitentiary. In that capacity I carried out the execution of Donald Eugene Moeller on October 30, 2012. Moeller's execution was performed using compounded pentobarbital.
- 3. I was in the execution chamber standing at Moeller's right shoulder during the entire execution. Once Moeller made his initial last statement, I signaled the executioners in the chemical room to commence the injection.
- 4. After about 30 seconds, Moeller uttered a final sentence in response to sounds being made by locked-down inmates housed in the same wing of the building where the execution chamber is located. Approximately 45 seconds after this final sentence, Moeller lost consciousness and expelled a faint snore. Moeller remained unconsoious until he was pronounced dead by the coroner. Moeller expelled a few last deep breaths approximately 60 seconds after I signaled to commence the injection. Visible indicators of a pulse ceased after approximately 4 minutes. After approximately 23 minutes, Moeller was pronounced dead by the coroner. A copy of the official execution timeline record is attached hereto as Exhibit 1.
- 5. Moeller exhibited virtually no signs of pain or physical distress during either the seconds he remained conscious after the injection commenced or during the period of unconsciousness before he died. A media witness described the execution as every quick." The witness "didn't see him [Moeller] in any pain at all." According to the witness, Moeller's execution was, like reports of the Robert execution, "very



clinical. Very quick. If this man [Moeller] was in pain, [the witness] didn't see it." Moeller was "gone" in "a matter of [aliminate. Excerpts of the media witness' public statements are attached hereto as Exhibit 2 and are an accurate description of the event.

6. Moeller was executed via the same protocol and with the same drug intended for use in the execution of Charles Russell Rhines. Due to then-pending litigation in Moeller's case, I ordered the drugs for Moeller's execution tested. The pharmaolst had the drugs tested by an independent lab. The testing informed me that the compounded pentobarbital used in Moeller's execution had passed authoritative USP standards for purity, potency, and sterility. A copy of the testing report is attached as Exhibit 3.

Dated this ___ day of November 2012.

Douglas Weber

Subscribed to and aworn before me this _/_ day of November 2012.

Patsy Mill Notary Public

My Commission Expires:

PATSY MIKEL

6/16/16

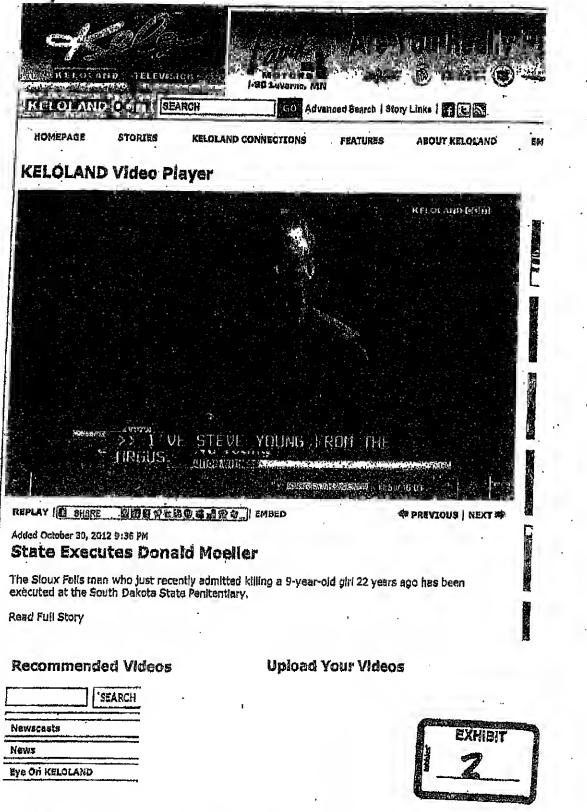
SEAL

Execution Timeline Record

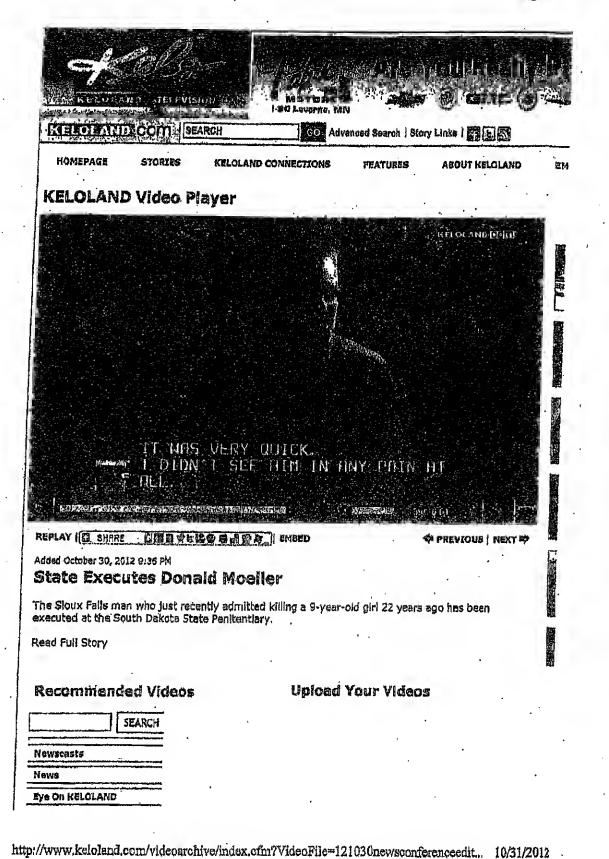
inmate name:	Donald Moeiler	inmate number: #28137
Execution Date:	10/30/12	
1. Removed fro	om holding cell	Time: 9:38 am
2. Transferred	to table	Time: 9:39pm
3. Restraints se	eoured	Time: 9:41 pm
4. IV started	. '	Time: Right arm 9:43 pm
		(Note whather arm, leg, or other)
Begin escorting to viewing room		Time: 9:53pm
6. All witnesses	present,	Time: 9:57 pm
7. Warden orden	s curtains opened	Time: 9:59 pm
8. Secretary of C Warden that the cleared to prodexecution.	e Warden is	Time: <u>10:00 om</u>
9. Last statement		Time: 10:01 om
10. Injections begin	1	Time: 10:01 pm
11. Injections comp	rieted	Time: 10:04pm
12. Second set of in	njections required	?YESNO
a. If yes, tin	ne second injectio	ns were started. Time:
b. Time sec	ond injections cor	mpleted. Time:
3. Death pronounc	ed	Time: 10:24 pm
4. Curtains closed	g	Time: 10:24 pm
•		



Case 5:00-cv-05020-KES Document 215-52 Filed 09/05/13 Page 4 of 10 Page 10 4. 2261



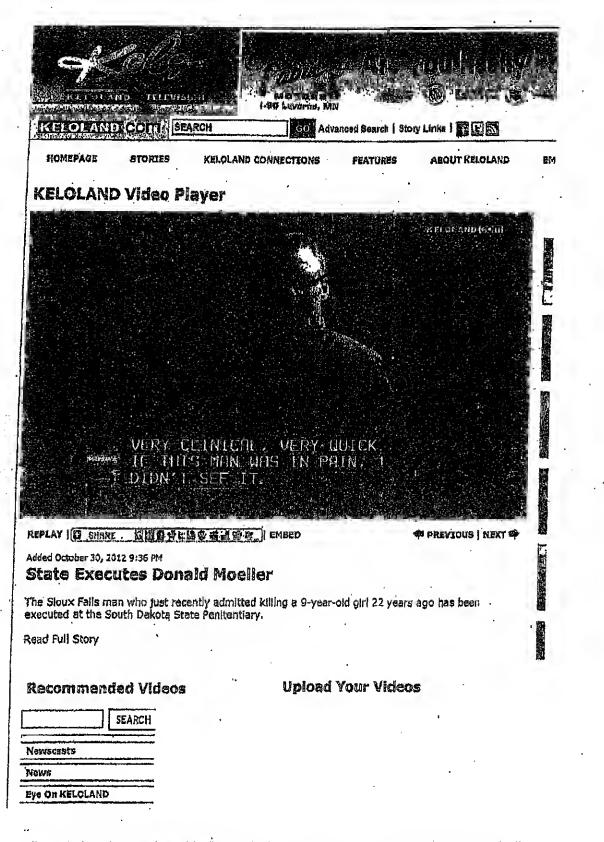
http://www.keloland.com/videoarchive/index.cfm?VideoFile=121030newsconferenceedit... 10/31/2012



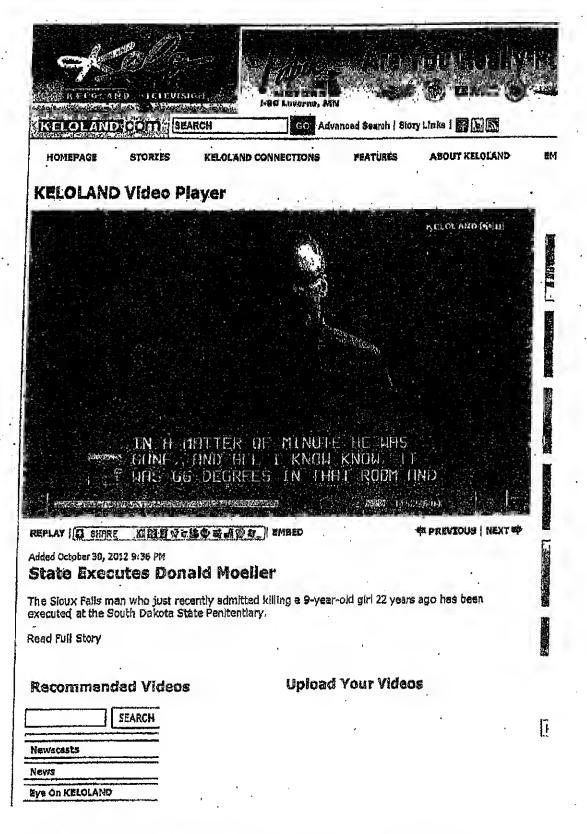
Case 5:00-cv-05020-KES Document 215-52 Filed 09/05/13 Page 6 of 10 Page 10;#: 2263 KELOLAND COM SEARCH GO Advanced Search | Story Links | 3 HOMEPAGE STORIES **KELOLAND CONNECTIONS** ABOUT KELOLAND **FEATURES** EM **KELOLAND Video Player** KELOLAND COM 11 WAS AS INTHE ROBERT EXECUTION, REPLAY I SHARE 以图像分配多类的经验。 EMBED 中 PREVIOUS | NIXT 李 Added October 30, 2012 9:36 PM State Executes Donald Moeller The Sioux Falis man who just recently admitted killing a 9-year-old girl 22 years ago has been executed at the South Dakota State Penitentiary. Read Full Story **Upload Your Videos** Recommended Videos SEARCH Newscasts Eye On KELOLAND

http://www.keloland.com/videoarchive/index.cfm?VideoFile=121030newsconferenceedit... 10/31/2012

Case 5:00-cv-05020-KES Document 215-52 Filed 09/05/13 Page 7 of 10 Page 80 #: 2264



http://www.keloland.com/videoarchive/index.ofm?VideoFile=121030newsconferenceedit... 10/31/2012



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Case 5:00-cv-05020-KES Document 215-52 Filed 09/05/13 Page 9 of 10 PageID #: 2266
Case 4:04-cv-04200-LLP Document 394 Filed 10/22/12 Page 1 of 1 PageID #: 9910

FILED

OCT 2 2 2012

United States district court District of South Dakota Southern Division



DONALD B. MOELLER.

٧.

Civ. 04-4200

Plaintiff,

AFFIDAVIT OF DEPONENT # 1

DOUGLAS WEBER, Warden, South Dakota State Penitentiary, DENNIS KAEMINGK, Secretary of the South Dakota Department of Corrections,

and DOES 1-20, unknown employees or agents of the South Dakota Department of Corrections.

Defendants.

State of South Dakota

* 88.

County of Minnehaha

- I, Deponent #.1, being first duly sworn upon oath, testify on personal knowledge and belief as follows:
 - Deponent # 1 compounded drugs intended for use in Donald Moeller's execution on or about October 3, 2012. The drugs were compounded on this date to allow time for testing prior to Moeller's execution.
 - 2. Deponent # 1 submitted a test sample of the compounded drug to a lab customarily used by my pharmacy. The lab was chosen by me with no influence from the state. On October 17, 2012, the lab reported that the drug I compounded meets USP standards for purity, potency, sterility, and 30-day stability. A redacted report is attached.

Dated this 22nd day of October 2012.

Deponent # 1

Subscribed and sworn to before me this 22nd day of October 2012.

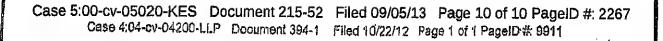
Notary Public South Dakota

(SEAL)

My commission expires: Ortober 15, 2017

EXHIBIT 3







Product Release Report

FRIAL DATA

Report'Date

10/13/2012

Sponsor .



Sample No.

38521

Product Description

Sodium Pentobarbital 60 mg/mi 1045082A

Lot No. Explry

11/1/2012

Release Specification; BPEC-PSSD-008,0

Procedure.	-	Specification		Final Data	Status	Dato of Test	Reference
Pyrogen		NMT 0.8 EU/mL		0.48 EU/mL	Passos ·	10/4/2012	USP <86>
Starility	,	Negative :	•	Nogativo ,	Passes	10/8/2012	USP 1
Fungel Screening		Negative		Negative	Passes	10/3/2012	USP <71>
HPLO		go-110% se Sodium Pentobarbilat		196.7% 53.3 mg/mL	Passes	10/4/2012	HPLO-TM-217.0

Date Received: Quantity Received 10/3/2012 1 x 40 mi

Carrier Tracking No.:





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49CIV19-002940

135 S.Ct. 2726

Richard E. GLOSSIP, et al., Petitioners Supreme Court of the United States

Kevin J. GROSS, et al.

.3267-41 .0N

Argued April 29, 2015. Decided June 29, 2015.

Synopsis

granted. Tenth Circuit, Briscoe, Chief Judge, 776 F.3d 721, affirmed. Certiorari was injunction, and they appealed. The United States Court of Appeals for the 7671680, entered an order denying inmates' motion for a preliminary Court for the Western District of Oklahoma, Stephen P. Friot, J., 2014 WL of severe pain in violation of Eighth Amendment. The United States District Oklahoma's three-drug lethal injection protocol created an unacceptable risk Background: State death-row inmates brought § 1983 action alleging that

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to render an inmate unable to feel pain. 2 district court did not commit clear error in finding that midazolam was likely compared to a known and available method of execution, and I inmates failed to establish that any risk of harm was substantial when Holdings: The Supreme Court, Justice Alito, held that:

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Breyer, and Kagan joined. Justice Sotomayor filed a dissenting opinion in which Justices Ginsburg, Justice Breyer filed a dissenting opinion in which Justice Ginsburg joined. Justice Thomas filed a concurring opinion in which Justice Scalia joined. Justice Scalis filed a concurring opinion in which Justice Thomas joined.

inmate. Neither argument succeeds. an increase in the dose administered will not have any greater effect on the irrelevant because midazolam has a "ceiling effect"—that is, at a certain point, higher than the normal therapeutic dose, they contend that this fact is Second, while conceding that the 500-milligram dose of midazolam is much insensitivity to pain once the second and third drugs are administered. induce unconsciousness, it is too weak to maintain unconsciousness and grounds.3 First, they argue that even if midazolam is powerful enough to 910 Petitioners attack the District Court's findings of fact on two main



procedure." Id., at 294. In his discussion about the ceiling effect, Dr. Sasich "render the person unconscious and 'insensate' during the remainder of the testiffed that although midazolam is not an analgesic, it can nonetheless conclusion that midazolam can render a person insensate to pain. Dr. Evans must affirm. Testimony from both sides supports the District Court's Based on the evidence that the parties presented to the District Court, we Lubarsky relied on "extrapolation of the ceiling effect data." App. 177. experts were also based on extrapolations and assumptions. For example, Dr. purpose, extrapolation was reasonable. And the conclusions of petitioners' because a 500-milligram dose is never administered for a therapeutic. See Brief for Petitioners 34 (citing Tr. 667-668; emphasis deleted). But [ions]" " from studies done about much lower therapeutic doses of midazolam. testimony because he admitted that his findings were based on " 'extrapolat They argue that the District Court should not have credited Dr. Evans' Petitioners attempt to avoid this deficiency by criticizing respondents' expert. evidence to prove their case beyond dispute. pain. Here, petitioners' own experts effectively conceded that they lacked bears the burden of showing that the method creates an unacceptable risk of state law, a party contending that this method violates the Eighth Amendment lethal injection protocol. When a method of execution is authorized under drug with the standard that must be borne by a party challenging a State's standard imposed on a drug manufacturer seeking approval of a therapeutic show that the drug is safe and effective." Ibid. Dr. Sasich confused the Hearing 357 (Tr.). Instead, he stated, "it's the responsibility of the proponent to prove that the drug doesn't work or is not safe." Tr. of Preliminary Injunction my responsibility or the [Food and Drug Administration's] responsibility to In an effort to explain this dearth of evidence, Dr. Sasich testified that "[i]t's not as a manner to administer lethal injections in humans"). stating that "there is no scientific literature addressing the use of midazolam drugs "has not been subjected to scientific testing"); id., at 176 (Dr. Lubarsky ability of midazolam to render a person insensate to the second and third no contrary scientific proof. See id., at 243-244 (Dr. Sasich stating that the 302; see also id., at 322. And petitioners' experts acknowledged that they had application of the 2nd and 3rd drugs" used in the Oklahoma protocol. Id., at level of unconsciousness to resist the noxious stimuli which could occur from would make it "a virtual certainty" that any individual would be "at a sufficient testified that the proper administration of a 500-milligram dose of midazolam conclusion was not clearly *2741 erroneous. Respondents' expert, Dr. Evans, occur from the application of the second and third drugs." App. 77. This sufficient level of unconsciousness to resist the noxious stimuli which could The District Court found that midazolam is capable of placing a person "at a

agreed that as the dose of midazolam increases, it is "expected to produce sedation, amnesia, and finally lack of response to stimuli such as pain (unconsciousness)." Id., at 243. Petitioners argue that midazolam is not powerful enough to keep a person insensate to pain after the administration of the second and third drugs, but Dr. Evans presented creditable testimony to the contrary. See, e.g., Tr. 661 (testifying that a 500-milligram dose of midazolam will induce a coms).* Indeed, low doses of midazolam *2742 are sufficient to induce unconsciousness and are even sometimes used as the sufficient to induce unconsciousness and are even sometimes used as the sole relevant drug in certain medical procedures. Dr. Sasich conceded, for sole relevant drug in certain medical procedures like example, that midazolam might be used for medical procedures like colonoscopies and gastroscopies. App. 267–268; see also Brief for colonoscopies and gastroscopies. App. 267–268; see also Brief for

Respondents 6–8.6 Petitioners emphasize that midazolam is not recommended or approved for use as the sole anesthetic during painful surgery, but there are two reasons why this is not dispositive. First, as the District Court found, the 500-milligram dose at issue here "is many times higher than a normal therapeutic dose of midazolam." App. 76. The effect of a 500-milligram dose. Second, the fact that probative value about the effect of a 500-milligram dose. Second, the fact that a low dose of midazolam is not the best drug for maintaining unconaciousness a low dose of midazolam is not the best drug for maintaining unconaciousness during surgery says little about whether a 500-milligram dose of midazolam is constitutionally adequate for purposes of conducting an execution. We recognized this point in Baze, where we concluded that although the medical standard of care might require the use of a blood pressure cutf and an electrocardiogram during surgeries, this does not mean those procedures are electrocardiogram during surgeries, this does not mean those procedures are required for an execution to pass Elghth Amendment scrutiny. Fig. 553 U.S., at

that because a consciousness check before injection of the second drug "can absent from Kentucky's protocol in that case. For example, the dissent argued Oklahoma has adopted mirror those that the dissent in Baze complained were Amendment.) 3 Id., at 55–56, 128 **S.Ct**. 1520. And many other safeguards that significantly reducing the risk that an execution protocol will violate the Eighth and backup IV and the presence of personnel to monitor an inmate-help in safeguards that Oklahoma employs—including the establishment of a primary operate as intended. Indeed, we concluded in Baze that many of the minimize any risk that might occur in the event that midazolam does not did not commit clear error in concluding that these safeguards help to continuously monitor the offender's level of consciousness. The District Court access site, it must confirm the viability of the IV sites, and it must particular. The execution team must secure both a primary and backup IV properly administered. The District Court emphasized three requirements in Oklahoma has also adopted important safeguards to ensure that midazolam is 90' 128 **2'C**F 1250'

these critical issues by suggesting that such evidence is "irrelevant if there is before a person becomes insensate to pain. The principal dissent avoids dose at which the ceiling effect occurs or about whether the effect occurs avoids suggesting that petitioners presented probative evidence about the The principal dissent discusses the ceiling effect at length, but it studiously insensate to pain caused by the second and third drugs in the protocol. that the ceiling effect negates midazolam's ability to render an inmate committed clear error in declining to find, based on such speculative evidence, the ceiling effect occurs. App. 225. We cannot conclude that the District Court relevant calculations, and he admitted: "I can't tell you right now" at what dose ... 40 to 50 milligrams," but he added that he had not actually done the Dr. Lubarsky's suggestion that the ceiling effect occurs "[p]robably after about concluded: "I could not find one." Tr. 344. The closest petitioners came was determine at what dose of midazolam you would get a ceiling effect," but more compelling. Dr. Sasich frankly admitted that he did a "search to try and id., at 171-172, and the testimony of petitioners' experts at the hearing was no such testing has been done." App. 243-244. Dr. Lubarsky's report was similar, for a ceiling effect on unconsciousness because there is no literature in which effect, but he conceded that he "was unable to determine the midazolam dose in his expert report that the literature "indicates" that midazolam has a ceiling establishing that its factual findings were clearly erroneous. Dr. Sasich stated evidence that they did present to the District Court does not come close to Petitioners provided little probative evidence on this point, and the speculative rendering a person insensate to pain caused by the second and third drugs. milligram dose and at a point at which the drug does not have the effect of here is whether midazolam's ceiling effect occurs below the level of a 500-"all drugs essentially have a ceiling effect." Tr. 343. The relevant question midazolam has such a ceiling cannot be dispositive. Dr. Sasich testified that effect than a therapeutic dose of about 5 milligrams. But the mere fact that maintain, it is wrong to assume that a 500-milligram dose has a much greater above which any increase in dosage produces no effect. As a result, they in the Oklahoma protocol. Petitioners argue that midazolam has a "ceiling" Court's *2743 finding about the effectiveness of the huge dose administered Petitioners assert that midazolam's "ceiling effect" undermines the District accommodated each of those concerns.

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reduce a risk of dreadful pain," Kentucky's failure to include that step in its procedure was unconstitutional. Fig. 139, 128 **S.Ct.** 1520 (opinion of GINSBURG, J.). The dissent also complained that Kentucky did not monitor the effectiveness of the first drug or pause between injection of the first and

second drugs. Fild., at 120-121, 128 S.Ct. 1520. Oklahoma has

not the biological process that produces the effect. And Dr. Lubarsky's matters for present purposes is the dosage at which the ceiling effect kicks in, even if Dr. Lubarsky's declaration is correct, it is largely beside the point. What regarding the biological process that produces midazolam's ceiling effect. But and a declaration by Dr. Lubarsky (submitted after the District Court ruled) Petitioners also point to an apparent conflict between Dr. Evans' testimony the District Court's decision to rely on his testimony. "inhibiting"—particularly in light of his written testimony—does not invalidate midazolam." App. 232 (emphasis added). Dr. Evans' oral use of the word expert report states that GABA's "inhibition of brain activity is accentuated by as for Dr. Evans' passing use of the term "inhibiting," Dr. Lubarsky's own the discussion of midazolam in Dr. Evans' expert report was inaccurate, and works in terms understandable to a layman. Petitioners do not suggest that Dr. Evans used during oral testimony in an effort to explain how midazolam In making this argument, petitioners are simply quarrelling with the words that midazolam facilitates its binding to GABA receptors." Brief for Petitioners 38. that this statement was incorrect because "far from inhibiting GABA, receptors, inhibiting GABA." Id., at 312 (emphasis added). Petitioners contend erred when he said at the hearing that "[m]idazolam attaches to GABA when he testified at the hearing. Petitioners contend, however, that Dr. Evans at 293-294, and Dr. Lubarsky did not dispute the accuracy of that explanation provided a similar explanation of the way in which midazolam works, see id., to its receptor to induce unconsciousness."7 App. 172. Dr. Evans' report midazolam "increases effective binding of [gamma-aminobutyric acid (GABA)] testimony. Petitioners' expert, Dr. Lubarsky, stated in his report that quibble about the wording chosen by Dr. Evans at one point in his oral One of petitioners' criticisms of Dr. Evans' testimony is little more than a recipient unable to feel pain. that a properly administered 500-milligram dose of midazolam will render the do not undermine Dr. Evans' central point, which the District Court credited, insensate to pain. They did *2744 not meet that burden, and their criticisms protocol and at a point at which the drug failed to render the recipient dosage below the massive 500-milligram dose employed in the Oklahoma was petitioners' burden to establish that midazolam's ceiling occurred at a regarding midazolam's ceiling effect by criticizing Dr. Evans' testimony. But it In their brief, petitioners attempt to deflect attention from their failure of proof produce ... lack of response to stimuli such as pain," App. 243.6 own experts) testified that higher doses of midazolam are "expected to insensate to pain, and not just from Dr. Evans: Dr. Sasich (one of petitioners' 2789. But the District Court heard evidence that the drug can render a person no dose at which the drug can ... render a person 'insensate to pain.' " Post, at

declaration does not render the District Court's findings clearly erroneous with respect to that critical issue.

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DECLARATION OF JOSEPH F. ANTOGNINI, M.D., M.B.A.

JOSEPH F. ANTOGNINI, does hereby declare and say:

- 1. My name is Joseph F. Antognini. I am a medical doctor, board-certified in anesthesiology. I received a B.A. degree from the University of California, Berkeley in Economics in 1980. I received my M.D. degree from the University of Southern California in 1984. I also received an M.B.A. from California State University, Sacramento in 2010. I was previously the Director of Peri-operative Services at the University of California, Davis Health System and a Professor of Anesthesiology and Pain Medicine and Professor of Neurobiology, Physiology and Behavior at the University of California, Davis. I am licensed to practice medicine in the State of California. I have over 30 years of experience practicing anesthesiology since 1984 when I began my residency at the University of California, Davis Health System. I am the author or co-author of over 200 publications. My area of research has been focused on anesthetic mechanisms, specifically related to where anesthetics produce unconsciousness, amnesia and immobility. A true and correct copy of my curriculum vitac is attached hereto as Exhibit B.
- 2. I have reviewed, and am familiar with, the allegations made in the complaint, the reports and/or declarations of Plaintiffs' experts, and additional information in the documents described below.

Scope of Engagement

3. I have been asked to render expert opinions in the fields of general medicine and anesthesiology, especially regarding the use, actions and efficacy of pentobarbital, in relation to South Dakota's lethal injection protocol, and the effectiveness of the procedures therein. I have



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also been asked to render opinions regarding the efficacy of pentobarbital in the case of Charles Rhines, a condemned prisoner. This report contains a complete statement of my opinions, and the basis and reasons therefor, including the facts or data I have considered in forming them.

The opinions that I do provide are within my field of anesthesiology and such fields as are necessarily related to anesthesiology, including general medicine, pharmacology and physiology, and fall within the scope of my expertise. All opinions expressed herein are stated to a reasonable degree of medical and scientific certainty unless otherwise noted.

Compensation

4. My fee schedule for this matter is as follows: \$650 per hour for nontestimonial work;\$700 per hour for deposition or video testimony; \$6000/day for in-person testimony and travel.

Materials Reviewed

- 5. I have conferred with attorneys for Defendants. Among the documents I have reviewed in connection with this case are the complaint (49CIV19-002940, filed 10/22/2019), publications in the "References Cited" section and the report of Craig Stevens, PhD. A list of documents I reviewed in preparation of this report is included in Exhibit A.
- 6. I am advised that discovery is not complete in this case and that more documents and information may become available to me at a later date. Should additional documents or information be provided to me for review and analysis, I reserve the right to take those additional materials into account, and to modify and/or supplement my opinions accordingly. I may also be present at hearings and/or trial. I may take into account any testimony or other evidence to the extent related to my opinions; I may modify and/or supplement my opinions accordingly. In performing my analysis, I have relied on my professional training, education and experience. The opinions presented in this report are my opinions and mine alone. I have reviewed and

considered documents and information and identified those materials (Exhibit A). These documents and other information that I reviewed and considered are of a type reasonably relied upon by experts in the field of anesthesiology, general medicine, physiology and pharmacology in forming opinions or inferences on questions in this area. I have looked upon all of these as valuable sources of information that I am obliged to consider.

Background

7. The intravenous administration of five (5) grams of pentobarbital would result in 1) rapid and deep unconsciousness within 20-30 sec, followed by 2) markedly depressed drive to breathe, followed by 3) absence of breathing, followed by 4) decreased oxygen levels in the body, followed by 5) slowing of the heartbeat, followed by 6) the heart stopping, i.e., death. During this period there will also be cardiovascular depression and collapse.

(see http://emedicine.medscape.com/article/813155-overview#a5 accessed 10-23-19)

8. As stated above, pentobarbital (5 grams) causes rapid unconsciousness followed by respiratory arrest, cardiovascular collapse and death. After intravenous injection of 5 grams pentobarbital, concentrations of pentobarbital will far exceed the lethal concentrations—see Table 1, package insert for pentobarbital in References Cited (Exhibit A) and extrapolating from data of *Ehrnebo* (1974). Once respiratory depression and arrest occurs within 1-2 minutes, the unconscious inmate then begins to use up the oxygen stores in his body, which are estimated to be 1200 ml (*Campbell & Beatty*, 1994). Normal oxygen consumption is about 250-300 ml/min, and virtually all the oxygen in the inmate's body will be used after 4-5 min. In fact, estimates of oxygen saturation after apnea confirm this relationship (*Farmery & Roe*, 1996). Before all the oxygen is used, however, the heart will be affected, will begin to slow and will then have periodic irregular beats. It likely will take several minutes before the heart stops all together. At

that point, death is declared. This process, as described, is irrefutable. It is based on the known actions of pentobarbital and sound pharmacological and physiological principles, and the known effects of these doses of pentobarbital in lethal executions.

- 9. These actions of pentobarbital are consistent with data published by Aleman et al., (2015), a study extensively discussed in the recent US Supreme Court case Bucklew v. Precythe, No. 17-8151 (decided April 1, 2019). In the Aleman study, horses were administered large, lethal doses of pentobarbital, with a mean time of infusion of 47 seconds, and the horses developed electroencephalographic brain silence (i.e., flat line) at a mean of 53 seconds after the initiation of the infusion, that is, EEG silence occurred on average, 6 seconds after the infusion finished. Because loss of consciousness occurs before EEG silence, these data fit with a time frame of 20-30 seconds for loss of consciousness after the initiation of the pentobarbital infusion.
- 10. In a similar study (*Buhl* et al., 2013), the time to collapse (when the horses went from standing to falling to the ground) was about 27 seconds (the average of the means of the four groups studied; see their table 2) after the initiation of the infusions. They also noted that respiratory arrest occurred simultaneous with falling to the ground in most horses (2nd paragraph in discussion).
- 11. These actions of pentobarbital listed above are consistent with the actions of an ultra-fast acting/ultra-short acting barbiturate that is administered in a large lethal dose as specified in the South Dakota protocol.
- 12. It is important to understand how barbiturate drugs can be classified as "ultra-short acting", "ultra-fast acting", "fast acting" and "short acting", and how this classification is not absolute, and depends in large part on the dose of the drug and the route that it is administered

(oral versus intravenous). The term "short acting" refers to the duration of action, that is, how long (time) does the drug have its intended effect, while "fast acting" refers to the onset of action, how long does it take for an effect to occur. In the case of barbiturates, an "ultra-short acting" barbiturate at a typical clinical dose has a duration of 5-10 minutes, while a "short acting" barbiturate at a typical clinical dose might have a duration of 15 minutes (see Table, Exhibit C). These concepts are outlined graphically in Exhibit D.

13. In the chapter in Miller's Anesthesia (1st Edition, 1981) which contains the material on barbiturates, the author writes:

"For matters of classification, the barbiturates are divided into four classes according to their duration of activity: long-acting, medium-acting, short-acting, and ultra-short-acting. However, this classification is often altered depending on the route of administration (oral versus intravenous), dose, use of other compounds, and the species." (Stanley, 1981).

Because this chapter was written within a few years prior to the 1984 South Dakota law, it informs our understanding of how barbiturates were classified at the time. Clearly, the author conveys the idea that the classification of barbiturates is subject to interpretation and circumstances, specifically dose and route of administration.

14. The inexactitude of this classification has been known for many years and found to be "scientifically unsound" (*Mark*, 1969). In 1969, L.C. Mark described the classification as archaic (*Mark*, 1969) writing:

"The spectrum of barbiturate effects extends in dose-dependent fashion from sedation to hypnosis to anesthesia to poisoning to death. Any of these

- effects can be achieved deliberately or accidentally by any barbiturate given in appropriate dosage...."
- 15. Likewise, Breimer wrote (Breimer, 1979):"It is surprising that this classification still persists in pharmacology textbooks".
- 16. In fact, Dr. Stevens, in his chapter on CNS active drugs (*Brenner and Stevens*, Pharmacology, 2018) makes no mention of ultra-short-acting barbiturates, and lumps pentobarbital and thiopental together as "short acting" (see his Table 19-1, pg 209). He distinguishes thiopental's onset of action from pentobarbital's onset as "very fast" versus "fast" but specifies that the onset for thiopental is for the intravenous administration, while for pentobarbital he describes attributes related to oral administration. Thus, even Dr. Stevens's description indicates that these differences are open to interpretation depending on the drug and mode of administration.
- 17. The administered dose of these drugs, relative to the classification, is important to point out. If a small enough dose of pentobarbital is administered, no effect is observed. If incrementally larger doses are administered, eventually an effect would be seen, but its duration could be on the order of just a few minutes, and thus the drug would be "ultra-short acting". For example, in the *Ehrnebo* study (1974) only 3 of 7 subjects administered 100 mg pentobarbital intravenously fell into a light sleep, and that was for 20-30 min. Thus, a smaller dose in those subjects would have likely produced a shorter duration of action, while a slightly larger dose in the other four subjects would have likely produced an effect with a duration of action in the range of 5-10 minutes (see Exhibit D for graphical representation of this concept).

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- 18. With thiopental administered at large sub-lethal doses for a prolonged period, the duration of action would likely be on the order of hours and would clearly exceed the "ultra-short acting" range. Finally, if thiopental is administered in large lethal doses, as in the setting of an execution, clearly its classification as an "ultra-short acting" barbiturate is meaningless.
- 19. The decision in the Montana case (Smith v Montana State Dept of Corrections, 2015 WL) as cited in the complaint, also uses the terms "ultrafast acting" and "ultrashort acting", and groups the two together (see table at *3), and likewise does the same with "fast acting" and "short acting". Furthermore, the Montana decision describes the opinion of Dr. Heath as follows: "it is often important to have a very quick transition from consciousness to unconsciousness" and that "this is the purpose of the development of ultra-fast-acting barbiturates." (at *2 of the decision).
- 20. To reiterate, these distinctions mentioned above help inform our understanding of the term "ultra-short acting" in the context of lethal execution. Thiopental and methohexital, which the inmate claims are "ultra-short acting", would not be so at the doses and route administered for lethal injection. At much larger doses, thiopental is not ultra-short acting. Patients administered large doses of thiopental for prolonged periods do not awaken quickly.

 Furthermore, as noted above, pentobarbital at the dose administered in the South Dakota protocol (5 grams) would induce rapid unconsciousness, within 20-30 seconds.

Conclusion

21. It is my opinion, to a reasonable degree of medical and scientific certainty, that 1) the inmate would become unconscious within 20-30 sec after the initiation of the infusion of the pentobarbital, followed by respiratory arrest, cardiovascular collapse and death; 2) injection of

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massive doses of barbiturates in this inmate would not inflict mild, moderate or severe pain; 3) these actions of pentobarbital are consistent with a drug classified as an ultra-fast acting/ultra-short acting barbiturate when administered in these massive doses.

22. Should additional information become available I reserve the opportunity to amend my statements herein.

Date: October 26, 2019

Joseph F. Antognini, M.D., M.B.A.

Exhibit A—References Cited

Aleman M, Williams DC, Guedes A, Madigan JE. Cerebral and brainstem electrophysiologic activity during euthanasia with pentobarbital sodium in horses. J Vet Int Med 2015; 29:663-72

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Buhl R, Andersen LOF, Karlshoj M, Kanters JK. Evaluation of clinical and electrocardiographic changes during the euthanasia of horses. The Veterinary Journal 2013; 196:483-91

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Ehrnebo M. Pharmacokinetics and distribution properties of pentobarbital in humans following oral and intravenous administration. J Pharmaceutical Sciences 1975; 63:1114-18

Farmery AD, Roe PG. A model to describe the rate of oxyhaemoglobin desaturation during apnoea. British J Anaesthesia 1996; 76:284-91

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Stanley TH. Pharmacology of intravenous non-narcotic anesthetics. p452 In: Anesthesia. Ed: Miller RD. Churchill Livingstone, New York, 1981

Wyant GM, Dobkin AB, Aasheim GM. Comparison of seven intravenous anaesthetic agents in man. Brit J Anaesthesia 1957; 29:194-209

Smith v Montana State Dept of Corrections, 2015 WL

Pentobarbital package insert (accessed 10-24-19): http://www.akorn.com/documents/catalog/package_inserts/76478-501-20.pdf

Declaration of Craig Stevens, Ph.D, dated Oct 22, 2019

Complaint 49CIV19-002940, filed 10/22/2019

Pentobarbital data from US National Library of Medicine TOXNET (accessed 10-26-19):

https://toxnet.nlm.nih.gov/cgi-bin/sis/search2/r?dbs+hsdb:@term+@rn+@rn+@rel+76-74-4

Thiopental data from US National Library of Medicine TOXNET (accessed 10-26-19): https://toxnet.nlm.nih.gov/cgi-bin/sis/search2/f?./temp/~DaPJwj:1

Exhibit B

CURRICULUM VITAE Joseph F. Antognini, M.D., M.B.A.

CONTACT:

ifantognini@icloud.com ifantognini@ucdavis.edu

EDUCATION:

1980

University of California, Berkeley (B.A., Economics)

1984

University of Southern California (M.D., Medicine)

2010

California State University, Sacramento (M.B.A., Business)

INTERNSHIP/RESIDENCY:

1984-1987

Anesthesiology, UC Davis Medical Center

1986-1987

Chief Resident

PROFESSIONAL POSITIONS:

9/16-present

Physician Surveyor

The Joint Commission Oakbrook Terrace, IL

7/17-present

Director Emeritus

University of California, Davis

7/11-present

Clinical Professor of Anesthesiology and Pain Medicine

(Volunteer Clincal Faculty appointment)

University of California, Davis-School of Medicine

11/10-6/16

Director of Peri-operative Services

UC Davis Health System

7/00-7/11

Professor of Anesthesiology and Pain Medicine

(with tenure)

Department of Anesthesiology and Pain Medicine University of California, Davis—School of Medicine

12/02-7/11

Professor of Neurobiology, Physiology and Behavior

(with tenure; WOS appointment) College of Biological Sciences University of California, Davis

11/98-7/10	Vice Chairman, Director of Research
11/98-3/02	Director of Malignant Hyperthermia Diagnostic Laboratory Department of Anesthesiology
7/96-7/00	Associate Professor (with tenure) Department of Anesthesiology University of California, Davis—School of Medicine
10/91-6/96	Assistant Professor Department of Anesthesiology University of California, Davis—School of Medicine
7/87-9/91 	Staff Anesthesiologist (Private Practice) American River Hospital Department of Anesthesiology Carmichael, CA
7/87-9/91	Assistant Clinical Professor (volunteer) Department of Anesthesiology University of California, Davis—School of Medicine

LICENSURE & CERTIFICATIONS:

State of California #G55662 (active)
Diplomate, National Board of Medical Examiners (1985)
Diplomate, American Board of Anesthesiology (1989)
Certificate of Recertification, American Board of Anesthesiology (1999, 2009)
Certified Yellow Belt, 2017

PROFESSIONAL SOCIETIES AND RECOGNITION:

American Society of Anesthesiologists 1987—present
California Society of Anesthesiologists 1987—present
Fellow of the American Society of Anesthesiologists 2018—present

ADVOCACY

ASA Grassroots Network (ASA Team 535) 2018 ASAPAC Donor—2018 FAER Donor—1999-2018

RESEARCH INTERESTS:

Mechanisms of anesthesia; factors influencing anesthetic requirements; OR efficiency

AWARDS AND HONORS

Dean's Mentoring Award, UC Davis School of Medicine, 2006

Associated Students of UC Davis "Excellence in Education Award" College of Biological Sciences, 2007

Associated Students of UC Davis "Excellence in Education Award" Outstanding Educator, 2007

Foundation for Anesthesia Education and Research, Mentor Academy, 2008 Phi Kappa Phi Honor Society, 2010

GRANTS

- 1. UC Davis Faculty Research Grant 1991-92—The effect of intrathecal aspirin on anesthetic requirements in rabbits, \$2500
- 2. UC Davis Faculty Research Grant 1993-94—Validation of a preferentially anesthetized goat brain model, \$1500
- 3. Foundation for Anesthesia Education and Research 1994—Determination of gross anatomic sites of anesthetic action, \$25,000 (\$25,000 matching departmental funds)
- UC Davis Faculty Research Grant 1994-95—The effects of general anesthesia on cerebral blood flow patterns as assessed by functional magnetic resonance imaging, \$1500
- 5. UC Davis Faculty Research Grant 1996-97—The effect of differential isoflurane delivery to brain and spinal cord on Inhibitory and excitatory output from the brain, \$10,000
- 6. Foundation for Anesthesia Education and Research 1997-99—The effect of differential isoflurane delivery to brain and splnal cord on inhibitory and excitatory output from the brain, \$70,000 (\$70,000 matching departmental funds)
- 7. NIH R01 GM57970 Brain and Spinal Cord Contributions to Anesthetic Action 8/98-4/02 (Priority Score 120, Percentile 1.0). Total costs \$713,026
- 8. NIH R01 GM61283 Anesthetic Effects on Sensorimotor Integration 2/01-2/06 (Priority Score 194, Percentile 18.9). Total costs \$672,791
- 9. U.C. Davis Faculty Research Grant. Indirect effect of isoflurane and lidocaine on EEG activation. 7/1/01-6/30/02, \$4,000
- 10. NIH R01 GM57970-4A1 Brain and Spinal Cord Contributions to Anesthetic Action 4/02-12/05 (Priority Score 197, Percentile 20). Total costs \$1,284,689
- 11. NIH 3R01GM057970-05S1 Brain and Spinal Cord Contributions to Anesthetic Action. Minority Supplement grant. 7/03-7/04. Total costs \$55,932
- 12. NIH P01 GM47818 Anesthetic Effects on Spinal Nociceptive Processing 8/04-7/09 (Priority Score 185). Total costs \$804,325
- 13. NIH R01 GM61283A1 Anesthetic Effects on Sensorimotor Integration 12/05-12/9 (Priority Score 158, Percentile 9). Total costs \$748,432

TEACHING

Post-Graduate:

- 1. Resident lectures on neuroanesthesia, anesthetic mechanisms, malignant hyperthermia, neuromuscular blocking drugs, volatile anesthetics, anesthesia research. 1991-2019
- 2. Anesthesiology Department Journal Club 2013-2016

 UCSF Changing Practice of Anesthesia—Faculty. September 2014: Perioperative Medicine and Healthcare Reform: Challenges and Opportunities for Anesthesiology

Graduate:

Guest lecturer for NPB 219 (E. Carstens, Instructor), 1998-2003
Guest lecturer for NPB 112 (E. Carstens, Instructor), 2001-2008
Guest lecturer for first year medical students—pain physiology 2002-2003
Facilitator, Application of Medical Principles 2002-2008
Guest Lecturer, 210B (Systemic Physiology) January 2006
Instructor of Record, Applied Physiology and Pharmacology 2007, 2008

Undergraduate:

NPB 10—Elementary Human Physiology (4 units). 2001-2009 Freshman Seminar: The Supreme Court and You. (2 units) 1998-2010

MENTORED STUDENTS, RESIDENTS AND POST-DOCTORAL SCHOLARS

	ENTONCE OF COLUMN	ILCODENIO MIDI GOL	DOG! GIVE SOLIGENITO
1.	Kevin Schwartz, M.D.		1993
2.	Michael Borges, M.D	Resident	1994
3.	Agi Melton, M.D.	Resident	1994
4	Etsuo Tabo, M.D.	Post-Doctoral Scholar	1997
5.	Steven Jinks	Graduate Student	1998-2001
6.	Chris Simons	Graduate Student	1998
7.	Xiao Wei Wang, M.D.	Post-Doctoral Scholar	1999
8.	Xiaoguang Chen, M.D.	Post-Doctoral Scholar	2000
9.	Makoto Sudo, M.D.	Post-Doctoral Scholar	2000
10	D.Satoko Sudo, M.D.	Post-Doctoral Scholar	2000
1	1.Alison Fitzgerald	Undergraduate Student	2000-2001
1:	2.Andrew Hall	Undergraduate Student	2001
1:	3. John Martin, M.D.	Resident	2001
1	4. Steve Jinks, PhD.	Post-Doctoral Scholar	2001-2004
1	5. Jason Cuellar, BS	Graduate Student	2003-2004
10	5. Linda Barter, MsVM	Graduate Student	2004-2007
1	7. Mashawn Orth	Graduate Student	2004-2005
18	3. Carmen Dominguez, M	ID Assistant Professor	2003-2005
19	9. Lauire Mark	Undergraduate Student	2005, 2006
2	D. Matthew LeDuc	Medical Student	2005
2	1. Toshi Mitsuyo, M.D.	Post-Doctoral Scholar	2004-2005
2	2. Kevin Ng, M.D.	Resident	2005-2006
2	B. JongBun Kim, M.D.	Post-Doctoral Scholar	2006
24	4. Sean Shargh	Undergraduate Student	2006-2007
2	5. Aubrey Yao, M.D.	Resident	2006-2007
26	3. Alana Sulger	Undergraduate Student	2006-2007
2	7. Gudrun Kungys, M.D.	Resident	2007-2008
2	3. Jason Talavera	Medical student	2007
29	9. Onkar Judge	Medical student	2008

Joseph F. Antognini, M.D.

30. Andrew Cunningham	Undergraduate Student	2008
31. Lauren Boudewyn	Undergraduate Student	2008
32. Austin Kim	Undergraduate Student	2008
33. Jason Andrada	Graduate Student	2009-2010
34. Jun Ye	Graduate Student	2014-2015
35. Reihaneh Forghany	Resident	2018-2019

SPECIAL ACTIVITIES:

Staff Anesthesiologist, American River Hospital, 1991-1992

Medical Advisor, CMT International (Charcot-Marie-Tooth), 1991-2000

Director, Case Conferences, Department of Anesthesiology, April-June, 1992

Proctor, Medical Board of California, 1992

Staff Membership, Sutter Davis Hospital, Davis, CA, 1992-1995

Consultant, Malignant Hyperthermia Hotline, Malignant Hyperthermia Association of the United States (MHAUS), 1992-2002

Associate, UC Davis Diagnostic Malignant Hyperthermia Laboratory, 1992-2010

Member, Subcommittee on Experimental Neuroscience and Biochemistry, American

Society of Anesthesiologists, 1996

Finance and Executive Committees, U.C. Davis Department of Anesthesiology, 1996-2002

Quality Assurance Committee, U.C. Davis Department of Anesthesiology, 1998-2004 Course Director, Annual U.C. Davis Anesthesiology Update (CME meeting), 1998-2003 California Society of Anesthesiologists: Educational Programs Committee, 1998-2000

Coordinator, Grand Rounds, Department of Anesthesiology, 1996

Professional Billing Workgroup, U.C. Davis, 1996-98

Question Writer, American Board of Anesthesiology, 1998-2001

Member, UC Davis Animal Care Committee, 2000-2003

Member, UC Davis School of Medicine Personnel Committee, 2003-2007; Chair 2007

Management Advisory Committee, Department of Anesthesiology, 2007

Ad Hoc Reviewer for Anesthesiology, Hospital Topics, Journal of Clinical Anesthesia, Journal of Comparative Neurology, Regional Anasthesia and Pain Medicine, Pain, Brain Rasearch, Journal of Neuroscienca, Anasthesia and Analgasia, British Journal of Anaesthesia, Nauroscience, Cephalgia, Neurosciance Letters, Journal of Chromatography, Basic & Clinical Pharmacology & Toxicology, Tharapautics and Clinical Risk Management.

Member, VA Ment Review Subcommittee, Alcohol and Drug Dependence, 2002-2005 Editor, American Board of Anasthesiology/ American Society of Anasthesiologists In-Training Examination 2003-2008

Associate Editor, Anesthasiology 2005-2011

Faculty Execuitve Committee, School of Medicine 2009-2010

Chair, Faculty Execuitve Committee, School of Medicine 2010-2011

Member of various hospital committees 2011-2016: Medical Staff Executive Committee, Quality Safety Committee, OR Committee, Surgical Services Steering Committee

BIBLIOGRAPHY

EDITED BOOKS

 Antognini JF, Carstens EE, Raines DE. Neural Mechanisms of Anesthesia, Humana Press, Totowa, NJ, 2002.

PUBLICATIONS

- 1. Antognini JF. Anaesthesia for Charcot-Marie-Tooth disease: a review of 86 cases. Canadian Journal of Anaesthesia 1992; 39(4):398-400.
- 2. <u>Antognini JF</u> and ND Kien, Cardiopulmonary bypass does not alter canine enflurane requirements. Anesthesiology 1992; 76:953-957.
- 3. <u>Antognini JF</u>. Intrathecal acetylsalicylic acid and indomethacin are not analgesic for a supramaximal stimulus. Anesthesia and Analgesia 1993; 76:1079-1082.
- 4. <u>Antognini JF</u>. Hypothermia eliminates isoflurane requirements at 20°C. Anesthesiology 1993; 78:1152-1156.
- 5. <u>Antognini JF</u> and GA Gronert. Succinylcholine causes profound hyperkalemia in hemorrhagic, acidotic rabbits. Anesthesia and Analgesia 1993; 77:585-588.
- 6. Melton AT, <u>JF Antogninl</u> and GA Gronert. Prolonged duration of succinylcholine in patients receiving anticonvulsants: evidence for mild up-regulation of acetylcholine receptors? Canadian Journal of Anaesthesia 1993; 40(10):939-942.
- 7. Antognini JF and K Schwartz. Exaggerated anesthetic requirements in the preferentially anesthetized brain. Anesthesiology 1993; 79:1244-1249.
- 8. Antognini JF and PH Eisele. Anesthetic potency and cardiopulmonary effects of enflurane, halothane, and isoflurane in goats. Laboratory Animal Science 1993; 43(6):607-610.
- 9. <u>Antognini JF</u>. Splanchnic release of potassium after hemorrhage and succinylcholine in rabbits. Anesthesia and Analgesia 1994; 78:687-690.
- Antognini JF, M Anderson, M Cronan, JP McGahan and GA Gronert. Ultrasonography: not useful in detecting susceptibility to malignant hyperthermia. Journal of Ultrasound in Medicine 1994; 13:371-374.

- 11. <u>Antognini JF</u> and ND Kien. A method for preferential delivery of volatile anesthetics to the *in situ* goat brain. Anesthesiology 1994; 80:1148-1154.
- 12. <u>Antognini JF</u>, BK Lewis and JA Reitan. Hypothermla minimally decreases nitrous oxide anesthetic requirements. Anesthesia and Analgesia 1994; 79:980-982.
- 13. Borges M and <u>JF Antognini</u>. Does the brain influence somatic responses to noxious stimuli during isoflurane anesthesia? Anesthesiology 1994; 81:1511-1515.
- 14. Antognini JF and ND Kien. Potency (minimum alveolar anesthetic concentration) of isoflurane is independent of peripheral anesthetic effects. Anesthesia and Analgesia 1995; 81:69-72.
- 15. Antognini JF and K Berg. Cardiovascular responses to noxious stimuli during isoflurane anesthesia are minimally affected by anesthetic action in the brain. Anesthesia and Analgesia 1995; 81:843-848.
- 16. Antognini JF. Creatine kinase alterations after acute malignant hyperthermia episodes and common surgical procedures. Anesthesia and Analgesia 1995; 81:1039-1042.
- 17. Gronert GA, NW Fleming and <u>JF Antognini</u>. Aberrant responses to muscle relaxants produced by diseases or drugs. Seminars in Anesthesia 1995; 14(4):283-290.
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- 19. Antognini JF and K Mark. Hyperkalaemia associated with haemorrhagic shock in rabbits: modification by succinylcholine, vecuronium and blood transfusion. Acta Anaesthesiologica Scandinavica 1995; 39:1125-1127.
- Antognini JF, R Wood and GA Gronert. Metocurine pharmacokinetics and pharmacodynamics in goats. Journal of Veterinary Pharmacology and Therapeutics 1995; 18:464-467.
- 21. Antognini JF. Movement associated with high cerebral concentrations of isoflurane: no evidence of seizure activity. Canadian Journal of Anaesthesia 1996; 43(3):310-314.
- 22. <u>Antognini JF</u> and GA Gronert. Extra-junctional receptors and neuromuscular blocking drugs. Current Opinion in Anaesthesiology 1996; 9:344-347.

- 23. Kien ND, <u>JF Antognini</u>, DA Reilly and PG Moore. Small-volume resuscitation using hypertonic saline improves organ perfusion in burned rats. Anesthesia and Analgesia 1996; 83:782-788.
- 24. Fleming NW, S Macres, <u>JF Antognini</u> and J Vengco. Neuromuscular blocking action of suxamethonium after antagonism of vecuronium by edrophonium, pyridostigmine or neostigmine. British Journal of Anaesthesia 1996; 77:492-495.
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- 26. Antognini JF. The relationship among brain, spinal cord and anesthetic requirements. Medical Hypotheses 1997; 48:83-87.
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- 28. Antognini JF and GA Gronert. Effect of temperature variation (22°C-44°C) on halothane and caffeine contracture testing in normal humans. Acta Anaesthesiologica Scandinavica 1997; 41: 639-642.
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- 30. <u>Antognini JF</u>. Isoflurane potentiates metocurine via peripheral not central nervous system action. Journal of Veterinary Anaesthesia 1997; 24:6-9.
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- 32. Antognini JF, E Carstens, E Tabo and V Buzin. Effect of differential delivery of isoflurane to head and torso on lumbar dorsal horn activity. Anesthesiology 1998; 88:1055-61
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- Antognini JF, XW Wang. Isoflurane can indirectly depress auditory evoked potentials by action in the spinal cord. Canadian Journal of Anaesthesia 1999; 46:692-95
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- 42. Antognini JF, E Carstens. Isoflurane blunts electroencephalographic and thalamic/reticular formation responses to noxious stimulation in goats. Anesthesiology 1999; 91:1770-9
- 43. Antognini JF, XW Wang, E Carstens. Isoflurane action in the spinal cord blunts electroencephalographic and thalamic-reticular formation responses to noxious stimulation in goats. Anesthesiology 2000; 92:559-66
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- monitored using the bispectral index of the electroencephalogram. Veterinary Research Communications 2000; 24:361-370
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- 51. Antognini JF, Carstens E, Atherley R. Does the Immobilizing effect of thiopental in brain exceed that of halothane? Anesthesiology 2002; 96:980-6
- 52. Jinks SL, Antognini JF, Martin JT, Jung S, Carstens E, Atherley R. Isoflurane, but not halothane, depresses c-fos expression in rat spinal cord at concentrations that suppress reflex movement after supramaximal noxious stimulation. Anesth Analg 2002; 95:1622-8
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 Anesthesiology 2004; 100:1224-34
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- Cuellar JC, <u>Antognini JF</u>, Eger EI, Carstens E. Halothane depresses C-fiberevoked windup of deep dorsal horn neurons in mice. Neurosci Letters 2004; 363:207-11

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- 73. Antognini JF, Carstens E. Anesthesia, Amnesia and the Amygdala: reducing the fear of intraoperative awareness. (Editorial) Anesthesiology 2005; 102:711-2
- 74. Cuellar JM, Montesano PX, Antognini JF, Carstens E. Application of nucleus pulposus to L5 dorsal root ganglion in rats enhances nociceptive dorsal horn neuronal windup. J Neurophysiol 2005 Mar 2.
- 75. Barter L, Dominguez CL, Carstens E, <u>Antognini JF</u>. The effect of isoflurane and halothane on electroencephalographic activation elicited by repetitive noxious c-fiber stimulation. Neurosci Lett 2005 382:242-7.
- 76. Dominguez CL, Barter LS, <u>Antognini JF</u>. Intrathecal picrotoxin minimally alters electroencephalographic responses to noxious stimulation during halothane and isoflurane anesthesia. Acta Anaesth Scan 2005; 49:763-70
- 77. Orth M, Barter L, Dominguez C, Atherley R, Carstens E, <u>Antognini JF</u>. Halothane and propofol differentially affect electroencephalographic responses to noxious stimulation. Brit J Anaesth 2005; 95:477-84
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- 79. Antognini JF, Jinks SL, Carstens EE. The spinal cord, anesthesia and immobility: a re-examination. International Congress Series 2005
- 80. Carstens E, Antognini JF. Anesthetic effects on the thalamus, reticular formation and related systems. Thalamus and Related Systems. 2005

- 81. Antognini JF, Barter L, Carstens E. Overview movement as an Index of anesthetic depth in humans and experimental animals. Comp Med, 2005; 55(5): 413-8.
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 Anesth Analg. 2006; 102:1169-73.
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- 87. Hemmings HC, Jr, , <u>Antognini JF</u>. Do general anesthetics add up? Anesthesiology. 2006; 104:1120-2.
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- 89. Antognini JF, Atherley RJ, Laster MJ, Carstens E, Dutton RC, Eger El. A method for recording single unit activity in lumbar spinal cord in rats anesthetized with nitrous oxide in a hyperbaric chamber. J Neurosci Methods, 2006; 160(2): 215-22.
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- 91. Antognini JF, Bravo E, Atherley R, Carstens E. Propofol, more than halothane, depresses electroencephalographic activation resulting from electrical stimulation in reticular formation. Acta Anaesthesiol Scand, 2006, 50(8): 993-8.

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- 94. Barter LS, Mark LO, Smith AC, <u>Antognini JF</u>. Isoflurane potency in the Northern Leopard Frog Rana pipiens is similar to that in mammalian species and is unaffected by decerebration. Vet Res Commun, 2007; 31(6): 757-63.
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- 104. Shnayderman D, Laster MJ, Eger El 2nd, Oh I, Jinks SL, <u>Antognini JF</u>, Ralnes DE. Increases in spinal cerebrospinal fluid potassium concentration do not increase isoflurane minimum alveolar concentration in rats. Anesth Analg, 2008; 107(3): 879-84.
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EXHIBIT C

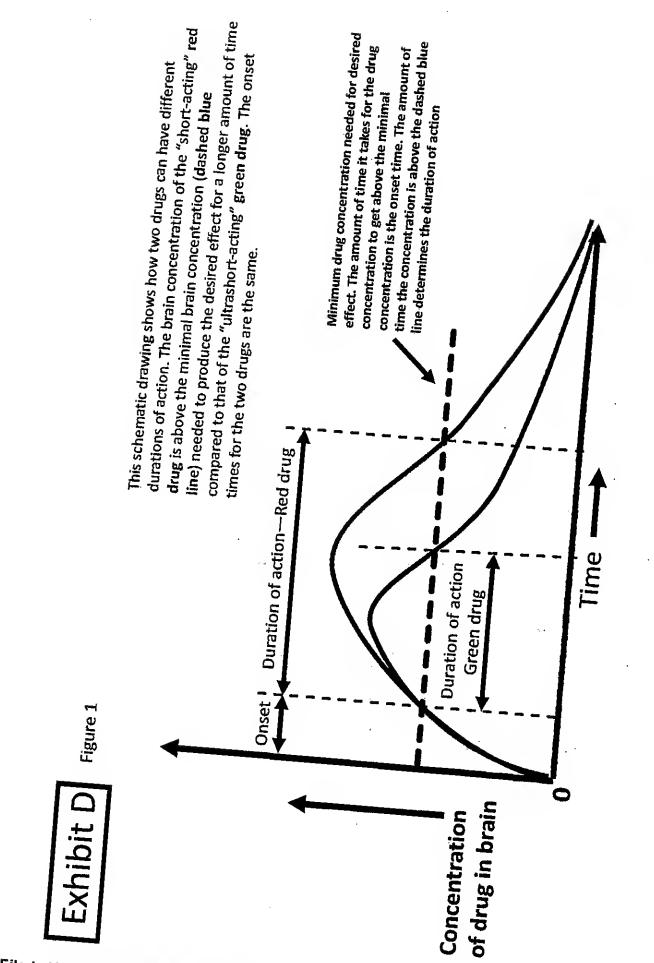
Table showing typical onset times and durations of action for thiopental (intravenous) and pentobarbital (oral and intravenous)

Thiopental (intravenous)	TYPICAL ONSET (Clinical dose) 10-40 seconds*	TYPICAL DURATION (Clinical dose) 5-8 minutes*	TYPICAL ONSET (Execution dose)	TYPICAL DURATION (Execution dose)
		5-95 minutes, mean 30 minutes**	10-40 seconds	Beyond duration of execution
Pentobarbital (oral pill)	15-60 minutes#	1-4 hours#	NA	NA
Pentobarbitai Intravenous)	1 mlnute#	15 minutes#	20-30 seconds##	Beyond duration of
				execution

#Pentobarbital data from US National Library of Medicine TOXNET (accessed 10-26-19): https://toxnet.nlm.nih.gov/cgi-bin/sis/search2/r?dbs+hsdb:@term+@rn+@rel+76-74-4

*Thiopental data from US National Library of Medicine TOXNET (accessed 10-26-19): https://toxnet.nlm.nih.gov/cgi-bin/sis/search2/f?./temp/~DaPJwi:1
based on Aleman et al. (2015) and Buhl et al. (2013)

** Wyant GM, Dobkin AB, Aashelm GM. Comparison of seven intravenous anaesthetic agents in man. *Brit J Anaesthesia* 1957; 29:194-209; total dose about 10.5 mg/kg in divided doses. These data show how just a 2-3x the usual clinical dose markedly increases the duration



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